Change Unite

2023-2024

BULLETIN

전남대학교
CHONNAM NATIONAL UNIVERSITY

CONTENTS

Ⅰ. History of CNU

1. History of CNU

■ The Establishment of CNU

The Honam region has long cherished its tradition of valuing justice (義) and artistry (藝). Based on this tradition, Jeonnam National University (CNU) set sail in Gwanjgu, at the center of the Honam region on June 9, 1952. The university emerged from the ashes of the Korean War with the support of local citizens who wanted to foster talented students. Even though CNU was established only about 60 years ago, it is celebrating more than 100 years of tradition because of the schools that were merged under CNU.

Before CNU came into existence, Honam was a home to several colleges and schools: Gwangju Agricultural College, for instance, which had been changed from Gwangju Agricultural School founded in 1909; Provincial Mokpo Commercial College, which evolved from Mokpo Commercial School founded in 1920; Provincial Gwangju Medical College, which developed from Gwangju Medical Professional School established in 1944; and Private Daesung College, which emerged from Daesung Boarding School founded in 1951. After the foundation of South Korea, the demand for competent and educated citizens escalated rapidly. Against this backdrop, local residents of Gwangju and Jeollanam-do yearned to establish a systematic institute for higher education. Their efforts bore fruit on September 16, 1951, with the creation of the Supporting Association for Establishing CNU.

To establish the university, the Association started by raising funds from local citizens. On October 6, 1951, it acquired the authorization to establish CNU as a national university. On January 1, 1952, CNU with five colleges was established: The College of Agriculture (formerly Gwangju Agricultural College), College of Business (formerly Mokpo Commercial College), College of Humanities (formerly Private Daesung College), College of Medicine (formerly Provincial Gwangju Medical College), and a newly opened College of Engineering. On June 1, 1952, the appointment of Dr. Choi Sang-chae as the first President, as well as eight Deans, superintendents, and a chief of the offices, gave CNU the structure and functions of a university. Finally, on June 9, 1952, the citizens of Gwangju witnessed CNU's historic opening ceremony.

When it started, CNU consisted of 2 administration offices (the Office of Academic Affairs and Student Affairs, and Office of Administrative Affairs), the five aforementioned colleges, and the Graduate School of Medicine, which had been authorized in May 1950 as the Provincial Gwangju Medical College.

■ The Development of CNU

CNU quickly established itself as a reputable university. It enacted school regulations and a school press, built libraries, and founded the College of Law in 1954. However, in the 1960s, CNU became involved in political turmoil, such as the April Revolution in April 1960, which shook South Korea, and permanently changed the country's history. CNU was at the center of forming and leading public opinions, through the May 16 Coup (1961), the enforcement of theLaw for National Reconstruction (1961), and the protest against the summit meeting between South Korea and Japan (1964). Meanwhile, the Colleges of Agriculture and Business and the Department of Chemical Engineering were forced to shut down. They were revived between 1961 and 1965. Despite the chaos, CNU continued its efforts to stabilize itself. It founded the internship program at the medical college in 1960. The Language Research Center, Students' Guidance Institution, Honam Culture Institution, and other research centers opened in 1963. Furthermore, on July 6, 1965, the Professors' Committee came into existence. It actively participated in campaigns to achieve better conditions for faculty members, requesting a renovation in the system for research professors and more financial support for the local national universities from the government. The Graduate School of Business was established in 1969.

Throughout the 1970s and 1980s, CNU experienced not only rapid physical growth but also hardship due to the political upheaval. The administrative system, which consisted in 1969 of one office, one bureau, two centers, and six colleges with 28 departments, had grown to include one more office, two more centers, and two more colleges with 35 more departments. Around this time, the Experimental College System was introduced in 1972 with the aim of renovating higher education in Korea by recruiting freshmen according to their areas of study, decreasing the number of compulsory credits, and allowing the early graduation of elite students. At this time, the campus was energetic with the sound of construction as new classrooms and faculty buildings were constructed. Private residences on campus were eliminated and Yongji, the artificial pond on campus, was created to add beauty to the study environment.

In the 1980s, CNU faced a period of utmost political turbulence as the May 18 Democratization movement broke out at the CNU Main Gate. The national government's oppressive military regime brought about a widespread civil resistance. CNU students and professors rose up against the dictatorship and sacrificed themselves to restore the democracy in the country. In spite of the turmoil, which caused great casualties among students, CNU continued to push toward a competent system as an institution for higher education with autonomy in separate academic fields. The College of Humanities was divided into the College of Humanities and Social Studies and the College of Natural Sciences

in 1979. In 1987, the College of Humanities and Social Studies was divided into the College of Humanities and the College of Social Studies. The Colleges of Dental Medicine, Pharmacy, and Art were established in 1980, 1981, and 1981, respectively. The College of Veterinary Medicine was spun off from the College of Agriculture and Life Sciences in 1988, the College of Human Ecology from the College of Natural Science in 1989, and the College of Nursing from the Medical School in 2005. The Graduate School of Education opened in 1975, the Graduate School of Public Administration in 1979, and the Graduate School of Industry and Technology in 1989.

For the 21st century, CNU has gathered momentum to leap forward as a prestigious higher educational institution that fosters professional manpower required by the age of knowledge and information through systemized education and contributes to regional development. On March 1, 2006, CNU established the Graduate School of Culture and integrated with Yeosu University, which previously had a history of 90 years. Subsequently, CNU established Law School (2009), AI Convergence College (2019), Graduate School of Data Science (2022), and Graduate School of Plant Protection and Quarantine (2022).

As of 2023, CNU's administrative organization consists of five divisions, one office, six headquarters, 17 colleges, general graduate schools, six special graduate schools, five professional graduate schools, one educational basic facility, 12 affiliated facilities, 13 organizations under the President's direct control, and two corporate bodies. In particular, in 2023, to support data-driven university operations, the University Computing Center was expanded and reorganized into the Information Headquarters to maximize the efficiency of integrated information management. Also, the Offices of International Affairs and Public Relations were integrated into the Global Cooperation Division to establish a proactive strategy for nurturing global talents and handling external affairs.

■ "Confident and Free CNU People"

Following its slogans, "CNU Sheds Light on the World That Cherishes Truth" and "Global University for Cultivating Global Leaders," CNU aspires to foster "Confident and Free CNU People" as its ideal talent. The university's development plan established in 2022 presented 40 execution strategies in five major areas as follows:

No.	Area	Slogan	Execution strategy
1	Education	Cultivating creative, emotional, collaborative, and competent individuals	- Strengthening competency-based liberal arts education - Innovation in future-oriented major education - Establishment of an educational innovation platform - Enhancement of student-centered education support - Strengthening competency-based

No.	Area	Slogan	Execution strategy
			extracurricular education programs - Enhancement of practical career-related skills and entrepreneurship education - Expansion of global education programs - Development of teaching-learning abilities
2	Research	Innovative research that creates sustainable future value	- Innovation in research-intensive education systems - Enhancement of research competencies of graduate students - Implementation of a lifelong research support system - Expansion of support for young researchers - Strengthening international competitiveness in research - Promotion of sustainable research innovation systems - Tailored administrative support for researchers - Enhancement of management system of research-related information
3	Specialization and Industry-Academia Cooperation	Leading higher education transformation and convergence through fostering innovative talent and cooperation with industries and institutions	- Cultivation of digital innovation talent - Cultivation of experts customized for regional industries - Specialized talent development to enhance national competitiveness - Strengthening industry-academia cooperation for regional co-prosperity - Establishment of future-oriented industry-academia cooperation platforms - Promotion of mid- to long-term industry-academia cooperation plans - Establishment of a successful system for CNU students - Operation of a sustainable eco-campus
4	Regional Cooperation	Leading the sustainable development of regional communities through future-oriented educational cooperation	- Strengthening support for regional youth education - Strengthening lifelong learning support for local residents - Operation of programs to activate local communities - Establishment of global-local cooperative communities - Establishment of cooperative communities for addressing regional issues - Strengthening cooperative systems between universities

No.	Area	Slogan	Execution strategy
			- Expanding university resource sharing tailored to local demand - Expanding contributions to local communities
5	University Operations	Establishing a flexible and open operation system through communication, innovation, and proactive administration	- Formation of communication-based administration and organizational culture - Support for autonomous innovation in academic fields - Strengthening welfare programs for university staff - Establishment of an administrative system based on data analysis - Balanced development of campuses considering the needs of regional communities - Reorganizing of academic structure to achieve optimal size - Implementation of the CNU Campus Master Plan - Innovation in university financial management and enhancement of brand value

By conducting futuristic convergence education that is ahead of the times, CNU nurtures future prospects equipped with imagination from humanities studies and creativity from scientific and engineering studies. It also supports outstanding researchers and strives to create a campus for research groups globally recognized for their accomplishment. In order to create a prestigious university loved by local people, CNU will actively contribute to the discourse of the local community, revitalize the economy, and focus on the spread of lifelong education. Also, CNU seeks a lively student culture and creates a culture of coexistence among faculty and staff to pursue happy companionship for university families. While respecting diversity and autonomy, it always maintains the foundation and direction of innovation, dreaming of a future of CNU as a national flagship university loved by local communities and a globally prestigious university.

CNU, which celebrates its 71st anniversary in 2023, is a global university that exchanges with 602 universities and institutions in 65 countries around the world. About 1,600 international students study at CNU every year, boosting its the excellence as a global campus. In addition, it carries out large-scale national projects such as local government-university cooperation-based regional innovation (RIS) projects, Semiconductor Joint Research Institute Projects, and Semiconductor Specialized University Projects. CNU not only revitalizes local communities, but also develops cutting-edge technologies necessary for the future such as semiconductors, software, new digital technologies, and intellectual property, focusing on nurturing talent in the field.

Ⅱ. Academic Calendar

2. Academic Calendar

Events	Date
Start of Spring Semester	2023. 03. 02.
First quarter of Spring Semester ends	2023. 03. 28.
Submission of printed drafts of Master's theses for degrees to be conferred in August 2023	2023. 03. 20. ~ 2023. 03. 24.
Mid-term Examinations for Spring Semester	2023. 04. 17. ~ 2023. 04. 21.
Second quarter of Spring Semester ends	2023. 04. 24.
Third quarter of Spring Semester ends	2023. 05. 23.
Make-up Class Day for Substitute Holiday (May 5th)	2023. 06. 14.
Make-up Class Day for Substitute Holiday (May 19th)	2023. 06. 15.
Course evaluation	2023. 06. 16. ~ 2023. 07. 03.
Final Examination for Spring Semester	2023. 06. 16. ~ 2023. 06. 22.
End of Spring Semester Classes	2023. 06. 22.
Submission of Evaluations of Master's theses and doctoral dissertations for expected graduation in August 2023	2023. 06. 19. ~ 2023. 06. 23.
Summer School	2023. 06. 26. ~ 2023. 07. 20.
Last day for the Announcement of Grades for Spring Semester	2023. 06. 27.
Last day for the Revision of Grades for Spring Semester	2023. 06. 30.
Last day for the Submission of Grades for Spring Semester	2023. 07. 02.
Submission of Syllabi for Fall 2023	2023 .07. 10. ~ 2023. 07. 24.
Graduate School Comprehensive Examination	2023. 07. 26.
Graduate School Foreign Language Examination	2023. 07. 27.
Last day for the Submission of Grades for Summer School	2023. 07. 27.
Announcement of the submission procedure for theses for Spring 2023	2023. 08. 01.
Course registration/Class Preferences	2023. 08. 01. ~ 2023. 08. 02.
Course enrollment (Seniors: Aug. 4 / Juniors: Aug. 7 /	

Sophomores: Aug. 8 / Freshmen: Aug. 9, Common Registration: Aug. 10-11	
Allocation of Tutors/Thesis Supervisors for Graduate students in Fall 2023	2023. 08. 16. ~ 2023. 09. 01.
Graduation ceremony	2023. 08. 25.
Enrollment period for the Fall Semester	2023. 08. 22. ~ 2023. 08. 25.
Fall Semester begins	2023. 09. 01.
Course Add/Drop for Fall Semester	2023. 09. 01. ~ 2023. 09. 07.
First quarter of Fall Semester ends	2023. 09. 27.
Submission of printed drafts of doctoral dissertations for degrees to be conferred in February 2024	2023. 09. 25. ~ 2023. 10. 02.
Submission of printed drafts of Master's theses for degrees to be conferred in February 2024	2023. 10. 02. ~ 2023. 10. 06.
Submission of Master's/Doctoral Theses plans for expected graduation in Fall 2024	2023. 10. 10. ~ 2023. 10. 13.
Mid-term examination period	2023. 10. 23. ~ 2023. 10. 27.
Second quarter of Fall Semester ends	2023. 10. 31.
Third quarter of Fall Semester ends	2023. 11. 27.
Make-up Class Day for Chuseok (Sep. 28th)	2023. 12. 12.
Make-up Class Day for Hangul Nal (Oct. 9th)	2023. 12. 13.
Make-up Class Day for Memorial Day (Oct. 4th)	2023. 12. 14.
Make-up Class Day for Temporary Holiday (Oct. 2th)	2023. 12. 15.
Course evaluation	2023. 12. 18. ~ 2024. 01. 03.
Final exam period	2023. 12. 18. ~ 2023. 12. 22.
Submission of Evaluations of Master's theses and doctoral dissertations for expected graduation in Fall 2024	2023. 12. 18. ~ 2023. 12. 22.
End of Fall Semester Classes	2023. 12. 22.
Winter School	2023. 12. 26. ~ 2024. 01. 22.
Last day for the Announcement of Grades for Fall Semester	2023. 12. 27.
Last day for the Revision of Grades for Fall Semester	2024. 01. 02.
Last day for the Submission of Grades for Fall Semester	2024. 01. 03.

Submission of Syllabi for Spring 2024	2024. 01. 08. ~ 2024. 01. 22.
Graduate School Comprehensive Examination	2024. 01. 25.
Graduate School Foreign Language Examination	2024. 01. 26.
Last day for the Announcement of Grades for Winter School	2024. 01. 29.
Course registration/Class Preferences	2024. 02. 05. ~ 2024. 02. 06.
Course enrollment (Seniors: Feb. 13 / Juniors: Feb. 14 / Sophomores: Feb. 15 / Freshmen: Feb. 16, Common enrollment: Feb. 19-20	
Announcement of thesis submission procedure for Fall 2024	2024. 02. 06.
Allocation of Tutors/Thesis Supervisors for Graduate students in Spring 2024	2024. 02. 13. ~ 2024. 03. 04.
Enrollment period for Spring Semester	2024. 02. 20. ~ 2024. 02. 23.
Graduation ceremony	2024. 02. 26.
Entrance ceremony	2024. 03. 04.

Ⅲ. Statistics

3. Statistics

School Classification

(As of April 1, 2023)

Classification	College/Graduate School	Enrolled Students	Attending Students	Degrees Awarded
College	College of convergence	581	390	50
	College of Nursing	393	338	1,321
	College of Business Administration	2,333	1,642	19,847
	College of Engineering	4,997	3,680	34,695
	College of Engineering Sciences	1,845	1,203	3,770
	College of Agriculture and Life Sciences	2,376	1,859	20,607
	College of Culture and Social Sciences	1,160	764	3,605
	College of Education	1,712	1,411	18,215
	College of Social Sciences	1,497	1,095	9,353
	College of Human Ecology	781	659	5,185
	College of Fisheries and Ocean Sciences	1,155	777	3,279
	College of Veterinary Medicine	327	305	1,656
	College of Pharmacy	371	362	2,337
	College of Arts	911	718	6,756
	College of Medicine	744	729	9,525
	College of Humanities	2,025	1,532	18,192
	College of Natural Sciences	1,815	1,335	15,723
	College of Dentistry	-	-	1,775
	College of divisions governed	358	287	1084
	College of Law	-	-	7,782
Total (Colleges)		**25,381**	**19,086**	**184,757**

Classification College/Graduate School			Enrolled Students	Attending Students	Degrees Awarded
	Graduate Programs	Master's Degrees	2,006	1,680	23,038
		Doctoral Degrees	1,490	1,230	8,789
	Graduate School of Business		125	104	696
	Graduate School of Culture		66	55	167
	Law School		408	394	1,348
	School of Medicine				373
	School of Dental Medicine		402	396	997
	School of Data science		53	50	-
Special Graduate Programs	Special Graduate Programs	Graduate School of Business			1,273
		Graduate School of Education	441	397	5,906
		Graduate School of Agricultural Development			73
		Graduate School of Industry and Technology	192	172	1,660
		Graduate School of industrial Cooperation (Yeosu Campus)	143	140	327
		Graduate School of Fisheries and Ocean Sciences	14	14	33
		Graduate School of Public Administration	4	4	1,659
		Graduate School of Public Policy	190	157	374
		Graduate School of Plant Protection and Quarantine	18	17	-
Institute of Liberal Education					
Innovation Center for Engineering Education					
Institute of Honam Studies					
Total (Graduate School)			**5,552**	**4,810**	**46,713**

Total (All)	30,933	23,896	231,470

* Excluding the following members: the President of university(1), Institute of Liberal Education (4), Institute of Honam Studies (1), Innovation Center for Engineering Education (1).

Degrees Granted

(As of April 1, 2023)

Bachelor's	Master's	Doctorate	Honorary Doctorate	Total
192,997	37,988	8,725	77	239,787

Faculty and Staff Members

(As of April 1, 2023)

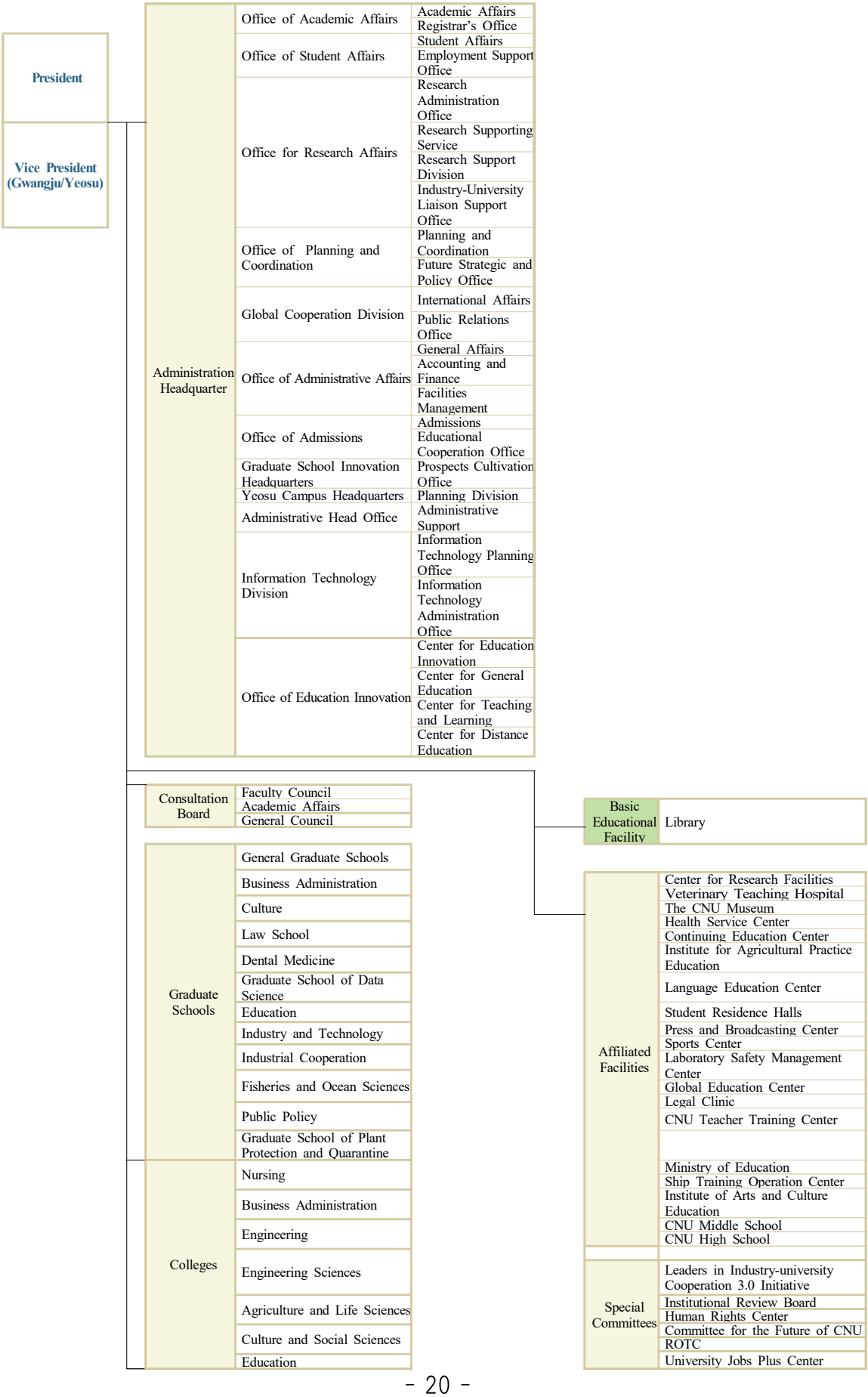
Positions		Number of Staff Members	
President		1	
Faculty	Professors	823	
	Associate Professors	199	
	Assistant Professors	167	
	Total	1,189	
	Assistants	246	
Staff		807	
Total		**3,432**	

Current Status of Plots and Buildings on Respective Campuses

(As of April 1, 2023)

Classification			Plot Size	Buildings		Remarks
				Number of Buildings	Floor Space	
Campus	Gwangju	Yongbong Campus	1,003,984	152	607,787	
		Hakdong Campus	57,352	8	30,060	Excluding CNU Hospital
		Sub Total	1,061,336	160	637,847	
	Yeosu	Dundeok Campus	398,625	28	130,072	
		Geukdong Campus and Others Facilities	61,321	8	20,862	
		IndustryUniversity Convergence Campus	4,078	2	8,376	
		Sub Total	464,024	38	159,310	
	Total		**1,525,360**	**198**	**726,155**	
other Lands	Gwangju	Jangseong Experimental Farm land	8,543,975	5	2,918	
		Naju Bonghwang District	295,259	12	4,194	
		Bogildo Experimental Farm land	17,468	2	446	
		Ora District, Jeju Province	16,529	--	-	
		Hwasun Hospital District	124,252	22	39,884	
		Jindo Natural Education Site	-	1	2,026	CNU Foundation Land (93,376㎡)
		Cheomdan District	-	2	5,973	
		Sub Total	8,997,483	44	55,441	
	Yeosu	Dolsan Geumbong District	15,720	2	4,913	
		Dolsan Training Center District	457	1	242	
		Sado Training Center	5,853	4	202	
		Sub Total	22,030	7	5,357	
	Total		**9,019,513**	**51**	**60,798**	
Total			**10,544,873**	**249**	**786,953**	

IV. CNU Organizations


President
Vice President (Gwangju/Yeosu)
Administration Headquarter
Office of Academic Affairs
Academic Affairs
Registrar's Office
Office of Student Affairs
Student Affairs
Employment Support Office
Office for Research Affairs
Research Administration Office
Research Supporting Service
Research Support Division
Industry-University Liaison Support Office
Office of Planning and Coordination
Planning and Coordination
Future Strategic and Policy Office
Global Cooperation Division
International Affairs
Public Relations Office
Office of Administrative Affairs
General Affairs
Accounting and Finance
Facilities Management
Office of Admissions
Admissions
Educational Cooperation Office
Graduate School Innovation Headquarters
Prospects Cultivation Office
Yeosu Campus Headquarters
Planning Division
Administrative Head Office
Administrative Support
Information Technology Division
Information Technology Planning Office
Information Technology Administration Office
Office of Education Innovation
Center for Education Innovation
Center for General Education
Center for Teaching and Learning
Center for Distance Education
Consultation Board
Faculty Council
Academic Affairs
General Council
Graduate Schools
General Graduate Schools
Business Administration
Culture
Law School
Dental Medicine
Graduate School of Data Science
Education
Industry and Technology
Industrial Cooperation
Fisheries and Ocean Sciences
Public Policy
Graduate School of Plant Protection and Quarantine
Colleges
Nursing
Business Administration
Engineering
Engineering Sciences
Agriculture and Life Sciences
Culture and Social Sciences
Education
Basic Educational Facility
Library
Affiliated Facilities
Center for Research Facilities
Veterinary Teaching Hospital
The CNU Museum
Health Service Center
Continuing Education Center
Institute for Agricultural Practice Education
Language Education Center
Student Residence Halls
Press and Broadcasting Center
Sports Center
Laboratory Safety Management Center
Global Education Center
Legal Clinic
CNU Teacher Training Center
Ministry of Education
Ship Training Operation Center
Institute of Arts and Culture Education
CNU Middle School
CNU High School
Special Committees
Leaders in Industry-university Cooperation 3.0 Initiative
Institutional Review Board
Human Rights Center
Committee for the Future of CNU
ROTC
University Jobs Plus Center

	Social Sciences
	Human Ecology
	Fisheries and Ocean Sciences
	Veterinary Medicine
	Pharmacy
	Arts
	Medicine
	Humanities
	National Sciences
	College of AI Convergence
	Faculty of Interdisciplinary Studies
	Division of Creative Convergence

Research Institutes (74)

	Regional Leading University Promotion Group
	Gwangju Jeonnam Regional Innovatin Platform
	University Distance Education Center
	Software Education Center
	Artificial Intelligence Innovation Fusion University Project Group
	Occupational Safety and Health Center
	Gwangju International Development Cooperation Center

Legal Bodies	CNU Foundation
	University-Industry Liaison

V. Basic Educational Facility & University Facilities

5. Basic Educational Facility & University Facilities

Library

The Chonnam National University Library (CNUL) was established in 1953 with the aim of building comprehensive collections in all research areas. Having established the digital library system in 1991, the Library provides support to university members and local residents.

Today, the CNUL comprises the main library, the Jeongbo-Maru library, the annex library, the Yeosu campus library, and three branch libraries(Legal, Dental, medical). The entire combined floor space of the library facilities totals an area of 41,242㎡. It currently holds more than 6,100 seats, 2,000,000 books, 800 journals and periodicals and 65 electronic resources(Web DB etc.). CNUL also provides access to other organizations' resources for its users.

As a world-class university, CNUL is now making strides towards becoming a global research-oriented university library.

■ **Services**

- Book Loan / Return / Renewal / Reservation
- Inquiry Ill-DDS: As a service to users, CNUL will provide upon request materials not currently in possession, from domestic or overseas other university libraries or institutions.
- Book requests

※ Please refer to the library website for further details.

■ **Opening Hours**

- Jeongbo-Maru library Weekdays: 09:00~20:00 Saturdays: 09:00~13:00
- Main library/Yeosu campus library/branch libraries: 09:00~18:00 on weekdays

■ **Websites**

- http://lib.jnu.ac.kr/ (Gwangju campus library)
- http://yosulib.jnu.ac.kr/ (Yeosu campus library)

■ **Contact Information**

- (062) 530–3571～2/3551~2 (Gwangju campus library)
- (061) 659-6601 (Yeosu campus library)

Center for Research Facilities

The education and research activities for science and technology of the university require well-managed high performance facilities and equipment. To satisfy the needs of the university members, two organizations, the Educational Equipment Service Center (established in 1993) and Public Experiment Center (established in 1997), were merged to form the Chonnam National

University Center for Research Facilities (CCRF) in 2001. Currently, the CCRF is located both at Gwangju and Yeosu campuses to provide specialized services to researchers of each campus. More than 80 kinds of the expensive and sophisticated equipment in the CCRF is operated and maintained by highly-trained staff, and the output of the analyses is supplied to the researchers. The CCRF also provides maintenance services for the educational equipment in individual laboratories.

■ **Contact Information**

- Website: http://ccrf.jnu.ac.kr/ (Gwangju campus, Yeosu campus)
- Phone: 82-62-530-1371~2 (Gwangju campus), 82-61-659-6680 (Yeosu campus)

Animal Hospital

The Animal Hospital was established in 1957 and provides medical services for animals in clinical areas such as internal medicine, surgery, obstetrics, radiology, and clinical examination. The Hospital has also contributed to the research and training of veterinary students and faculty members.

■ **Contact Information**

- Phone: +82-62-530-2882, 2883 Fax: +82-62-530-2881
- Opening Hours_Weekdays: 09:30~17:30
- E-mail: cnu06806@jnu.ac.kr

The University Museum

The University Museum was opened in the Geumho Building (university library) in April 1957 with collections of calligraphy, paintings, and pottery donated by Dr. Choi Sang-chae, the first president of the university. The museum moved to the enlarged space of Yongbong Cultural Center in June 2002 and has been developed as a key museum the Gwangju region.

The University Museum has a collection of more than 7,000 relics and over 20,000 excavated cultural assets, the main antiquities of which are exhibited in the seven permanent exhibition halls (Prehistory, Mahan Dynasty, Ceramics, Buddhist Art, Paintings, Folklore, and Dinosaurs). The University Museum operates a Special Exhibition Hall and Learning Experience Center as well. It also hosts a series of lectures on culture and art for students and the general public.

In addition, on June 27th, 2012, the Museum of University History was opened to mark the university's 60th anniversary. More than 450 items from the historical relics of university were selected from a collection of 5,000 to be displayed. The Special Collection Hall, Democratic Movement Hall, and Multimedia rooms are also open to visitors.

As an attached and affiliated organization, the Dinosaur Research Center was established in 2001.

■ **Opening Hours Websites**

- The University Museum: Weekdays, 1st and 3rd Saturdays / 09:00~17:00
- The Museum of University History: Weekdays / 09:00~17:00

■ **Contact Information**

- The University Museum: (062)530–3583～5, 3581
- The Museum of University History: (062)530-3594
- Website: http://museum.jnu.ac.kr

Health Service Center

The Health Center has actively provided health & medical services to faculty members, staff, and students since its establishment in 1957. The services include yearly physical check-ups for students, as well as non-credit courses on preventive medicine, health management, and campus environment management. It also offers mandatory insurance to students.

■ **Contact Information**

- Phone: 062-530-3602 ~ 6

Lifelong Education Center

The center was established in 1997. The main aim of the center is to contribute to the improvement of the quality of life and to the national development by providing open education to residents of the regional and local community.

■ **Educational goals**

- Providing specialized education that meets the demands of the era characterized by information and communication technology and specialization
- Nurturing civilized citizens who can inherit and further develop the reputation of this region as the home of arts
- Offering human-oriented and community-centered education that contributes to bringing together all human beings with the spirit of love for humankind
- Providing open education that guarantees equal educational opportunities for everyone regardless of age, gender, race, educational background, social status, and culture
- Providing learner-centered education that helps materialize the lifelong learning society

■ **Major Programs**

- Gwangju Campus
  - General Courses / Special Courses / Programs for Local governments / Courses for credit bank system

- Yeosu Campus
  · General Courses

■ **Future Plans**

- Offering programs in partnership with local governments and expansion of lifelong education networks
- Pursuit of relevance and excellence in the partnership programs and enhancement of participation by local residents
- Enhancement of student satisfaction through quality control improvement
- Development of new specialized programs for the future

Provision of community-based lifelong learning opportunities and social participation activities

■ **Contact Information**

- Tel: (062) 530-3873~6 (Gwangju Campus) / (061) 659-6551~3 (Yeosu Campus)
- Website: http://sle.jnu.ac.kr(Gwangju Campus) / http://yosu.jnu.ac.kr(Yeosu Campus)

Institute for Agricultural Practice Education

■ **Plant Resources Section**

The agricultural farm encompasses 45,199㎡ of rice and dry fields, four greenhouses measuring 1,538㎡ respectively on the Yongbong campus, as well as a farm measuring 187,506㎡ in Naju. Together with its agricultural machinery, the farm provides experimental opportunities for both students and faculty members.

■ **Forest Resources Section**

The Experimental Forest station consists of the Arboretum on the Yongbong campus (1,704㎡), the Jangseong (9,175,461㎡), and Bogildo (11,047,384㎡) Forest Experimental stations, each providing students and faculty with natural resources for experimentation and their related research.

■ **Animal Resources Section**

The Animal Farm located on the Yongbong campus (7,307㎡) and Naju (81,854㎡) have contributed not only to research, experiments, and student training but also to the development of the local livestock industry.

■ **Contact Information**

- Website: http://agrobio.jnu.ac.kr/user/indexMain.action?siteId=agrobio)
- Phone: 82-62-530-2015~6

Language Education Center

The Language Education Center (the LEC) of Chonnam National University is one of the leading institutions in the field of language education and research in Korea. For over fifty years, the LEC has worked towards developing the foreign language abilities of university students, as well as the general public, by providing a broad range of language courses and conducting comprehensive research in the field of second language acquisition.

The LEC provides practical English and Korean language courses and programs, offers English and Korean language teacher training programs, and administers a variety of language proficiency examinations for a number of major languages.

■ **Contact Information**

- Phone: +82-62-530-3631, 3633 / Fax: +82-62-530-3629
- E-mail: language@jnu.ac.kr
- URL: http://lec.jnu.ac.kr

Student Residence Halls

■ **Gwangju Campus**

Residence halls on the Gwangju campus have been established and are operated to accommodate approximately 4,000 people.

The halls are divided by gender, with each unit equipped with a shower room, bed, desk, chair, bookshelves, wardrobe, shoe rack, shelf, and refrigerator, alongside a central heating and cooling system. International students can apply for residence halls two months before the move-in day of each semester, benefiting from the opportunity to be selected as residents.

○ **Contact Information**

- Phone: +82-62-530-3733, 3734
- E-mail: dormitory@jnu.ac.kr
- Website(ENG): https://dormitory.jnu.ac.kr/Eng/Main.aspx

■ **Yeosu Campus**

Three student residence halls －Pureun, Yeolin, and Mirae hall－ at CNU Yeosu campus can accommodate up to 966 individuals in single and double occupancy cells (534 males and 432 females). Housing is assigned at the start of each semester, including summer and winter session. Housing is assigned at the start of each semester, including summer and winter school sessions. Inexpensive meals are provided for residence hall students. The dormitory rooms are equipped with desks, chairs, bookshelves, beds, wardrobes, and shower rooms. The halls feature communal facilities such as laundry rooms with washing and drying machines, reading rooms, convenience stores, lounges with cable TVs, vending

machines, hot & cold water purifiers, PCs and printing rooms, refrigerators, heating systems, meeting rooms, kitchens, halal food kitchens, and fitness rooms/gyms. International students and freshmen will be given priority for housing over other students in the CNU Yeosu campus dormitories.

○ **Contact Information**

- Phone: +82-61-659-6813, 6814
- Website: https://house.jnu.ac.kr/

■ **Hwasun Campus**

The student residence hall located at Hwa-sun is specifically for medical students at CNU. The residence hall can accommodate up to 350 people in either single or double rooms. Housing assignments are made at the beginning of the medical school's academic semester for a period of one year, including summer and winter vacations.

Housing units in the dormitory are equipped with desks, chairs, bookshelves, beds, wardrobes, shower rooms, and refrigerators. The hall also provide amenities such as laundry rooms, study rooms, communal kitchens, lounges (with cable TVs and hot-cold water purifiers), stores, and gyms.

○ **Contact Information**

- Phone: +82-61-379-6601, 6602
- Website: https://hsdorm.jnu.ac.kr/

Press and Broadcasting Center

Established in 1995, the Press and Broadcasting Center (PBC) has continued to work towards promoting communication and generate public opinion on campus issues through the consolidation of three existing forms of campus media: The Chondae Shinmun, Chonnam Tribune, and Chonnam National University Broadcasting. The PBC also operates its website under the name "CNU Media" (cnumedia.jnu.ac.kr) to better communicate and respond to its audiences.

The Chondae Shinmun, a Korean newspaper, has been in circulation since 1954 and has held a literary contest every year since 1970. *The Chonnam Tribune*, an English magazine, has been published since 1968 and has hosted an annual English essay contest to enhance students' English proficiency. Chonnam National University Broadcasting Station (CUB) has produced a variety of programs such as campus news and music since 1967 and has held the CUB Campus Song Festival annually since 1972. The Yeosu Campus PBC was founded as a result of the integration of CNU and Yeosu National University on March 1, 2006.

As of 2023, the Center contributes to the University and local communities and plays an essential role in providing accurate, reliable news and useful information, initiating common agendas, and promoting open dialogue within the communities.

■ **Contact Information**

- Phone: +82-62-530-0521, 0523, 0525, 0526 (Gwangju) / +82-61-659-6655 (Yeosu)
- Fax: +82-62-530-0522
- E-mail: cnumedia1995@jnu.ac.kr
- URL: cnumedia.jnu.ac.kr

Sports Center

Chonnam University Sports Center is located in Yong bong-dong, Buk-Ku in a densely populated residential area and commercial buildings. This center aims at meeting the needs of local citizens by offering regular exercise programs to improve their health and fitness. This center will provide high-end service to customers and is expected to contribute to elevating the image of Chonnam University.

■ **Goals**

- to build a space which can contribute to expand the population who participate in daily exercise
- to provide systematic and various programs
- to satisfy customers with quality service and facilities
- to stabilize independent management through normalizing the center organization

■ **Courses**

Fitness, Badminton, Band Stretching, Ballet Stretching, Yoga, Jazz Dance, Pilates, Tennis, Spinning, Cycle, Physical, Strength Measurement, Circle Training, Zumba Dance, Infant Ballet.

■ **Contact Information**

- TEL: (062) 530-2581-4
- FAX: (062) 530-2585
- URL: www.sports.jnu.ac.kr

Laboratory Safety Management Center

The Laboratory Safety Management Center at Chonnam National University works to prevent accidents and ensure the safety of laboratories on campus according to the Act on Establishment of Safe Laboratory Environments.

The main business responsibilities are as follows:

1. Establish plans for creating a safe laboratory environment
2. Offer safety management training and health screening for researchers
3. Provide accident prevention and handling measures in case of accidents
4. Ensure laboratory safety checks and precise safety inspection

5. Manage wastewater and related facilities as well as pollution control facilities
6. Safety management service such as monitoring radiation levels, health & safety education, and health check-ups.

■ **Contact Information**

- Tel: 82-62-530-3885~7, 3908, 3768
- Location: Building #D15, Yongbong

Global Education Center

The Global Education Center (GEC) is located on the Yeosu campus of Chonnam National University (CNU). The center aims to educate university students as well as the general public while supporting international students from various countries.The center has three departments: Language Education, International Affairs, and Liberal Education. The Language Education department provides English, Japanese, and Chinese language courses for CNU students to improve their foreign language proficiency.

From 2018, it also started the Korean language intensive program as a credit course for international students. The department of International Affairs is in charge of international students' successful study abroad and also provides settlement support. The Liberal Education department offers various curricula to cultivate talent with imagination from humanities while harnessing creativity from science and engineering.

To help students learn better the GEC is equipped with modern classrooms, multimedia classrooms, and a Global Zone for international students. We offer many kinds of convenient facilities for students to enjoy their daily lives at the Yeosu campus.

■ **Contact Information**

- Language Education Department: +82-61-659-7021, 7022
- International Affairs Department: +82-61-659-7024, 7025
- Liberal Education Department: +82-61-659-7026
- Fax: +82-61-659-7029
- E-mail: language@jnu.ac.kr
- URL: http://gec.jnu.ac.kr

CNU Teacher Training Center

This training center aims to contribute to the development of education in South Korea by providing qualification training, job training, general training, and special training to enhance the professional knowledge and educational skills required for teachers in their professional roles.

■ **Contact Information**

- Phone: 062-530-2307
- Website: http://younsu.jnu.ac.kr/

Teaching Profession

The Teaching Profession Department is responsible for the integrated operation and support of teacher training programs within the university's College of Education, Graduate School of Education, and general education programs. It was established under the Office of Academic Affairs in June 2013 and was transferred to the College of Education on July 1, 2021.

■ **Contact Information**

- Phone: 062-530-5922
- Website: https://www.jnu.ac.kr/MainUniLife/Licence/Academic_Pro

CNU Maritime and Oceanic University Ship Practice Center

■ Purpose

This center provides hands-on training to students majoring in marine and oceanic studies, engineering, fisheries, and maritime policing, using large stern trawlers and training vessels for marine and fisheries probes equipped with navigation, machinery, and equipment for fisheries and oceanic survey. In addition, by establishing a quality marine research and management system as a designated educational institution for marine personnel training, as well as conducting academic research in the marine and fisheries fields such as fisheries resources, marine environment, and marine safety, the development of new fishing technologies and systems and the basics of marine safety, etc. will be promoted. The center also provides basic and detailed data in the field of marine and oceanic studies, and contributes to the development of related industries in the local community.

■ Faculty

Category	Director	Professor	Fisheries and Ocean Sciences	Broadcasting and Communications	Cooking	Total	Note
Ship Training Center	1	1	3			5	
Saedongbaek-ho			20	1	4	25	Training Ship
Cheong-gyeong-ho			12		1	13	Vessel for Marine and Fisheries Probes
Total	1	1	35	1	5	43	

■ Specification of Training Ships and Major Equipment

Name of Ship	Gross Ton (ton)	Net Ton (ton)	Speed (kt)	Specification (m)			Main Engine Horsepower	Capacity (persons)		Date of Launching
				Overall Length (L)	Full Width (B)	Pivot Point (D)	Auxiliary Machinery Horsepower	Faculty	Student	
Saedongbaek-ho	2,996	972	14	96.45	15	7.60	HHI HiMSEN 7H32 3,500KW HHI HiMSEN 6H17/28E × 3	28	82	2019. 3.
Cheong-gyeong-ho	485	-	13	46.10	9.20	5.90	HHI HiMSEN 5H22CDFP2,948HP SANIA DI13 075M/LSAM 376kW	12	20	2022.11.

■ **Contact Information**

- Phone: 061) 659–7111～4
- Fax: 061) 659–7119
- URL: http://shiptc.jnu.ac.kr

A. Legal Clinic of CNU Law School

■ Purpose

The Legal Clinic of CNU Law School was established for the purpose of public service and clinical legal education for graduate students in the field of law. Previously known as the CNU Legal Consultation Center before the establishment of CNU Law School, it has been reorganized as the Legal Clinic with additional functions aiming at equipping students with specialized knowledge and practical skills to foster legal professionals. It continues to provide legal consultation for the university community, as well as underprivileged populations in the local community.

■ **Contact Information**

- Phone: 062) 530–2291
- URL: http://lawschool.jnu.ac.kr/

CNU Institute of Arts and Culture Education

The CNU Institute of Arts and Culture Education offers programs to obtain a level 2 Culture and Arts Education Instructor Certificate, as designated by the Ministry of Culture, Sports and Tourism. It was designated as such on February 1, 2013, and has been offering specialized courses since the fall semester of 2013, currently offering information on admission for the first semester of 2024.

The Cultural and Arts Education Instructor Certificate is issued to qualified individuals who perform

tasks related to planning, conducting, analyzing, evaluating, and teaching cultural and arts education, in addition to being educators in the field. The Cultural and Arts Education Instructors are required to complete a prescribed curriculum and are granted qualifications in accordance with the Cultural Arts Education Support Act.

The CNU Institute of Arts and Culture Education provides specialized education in various fields, including traditional Korean music, music, fine arts, crafts, and design. To date, there are 1,126 students who have completed the prescribed curriculum for each field.

The institute's educational programs aim to enhance the qualifications of cultural and arts education professionals, improve the quality of arts education, and contribute to the development of the local community by nurturing talented individuals in the arts and to foster professional talent to work in the field of art and culture.

The CNU Institute of Arts and Culture Education is headed by a director and has administrative staff. It also has an operating committee to deliberate on key matters related to its operation.

■ **Contact Information**

- Phone: (062) 530-3014
- URL: http://arte.jnu.ac.kr

VI. Research Centers at CNU

6. Research Centers at CNU

1. Research Institute of Nursing Science

Phone: +82-62-530-4939 URL: http://crins530.jnuac.kr/

The purpose of the Research Institute of Nursing Science at Chonnam National University is to promote sustainable growth of nursing discipline by systematically integrating nursing education, research, and practice associated with the academic advance of nursing science, the development and support of nursing educational programs fused and integrated with other relevant disciplines, mental health and general health promotion projects of communities, advisory services for health care policies, and research and development projects for general health care. Therefore, the Research Institute of Nursing Science focuses on the activities of reinforcement of research by multidisciplinary collaboration of the nursing faculty, clinical nurses, and other healthcare providers for community health, development and support of grant proposals for research funding from domestic and international organizations, maintenance of the accredited nursing educational program and development and support of educational services differentiated from the competition, while supporting the nurturing of nursing research manpower with global competitiveness.

Since its establishment in 1996, the Research Institute of Nursing Science has held nationwide academic conferences and seminars every year. The Institute has been publishing academic journals since 1996, and its journal「Nursing & Health Issues (NHI)」was selected as a KCI candidate journal by the National Research Foundation of Korea in 2021.

2. Management Research Institute

Phone: +82-62-530-1427 URL: cnu123.com

Chonnam National University's Management Research Institute was established in 1984 under the initial nomenclature of the Chonnam National University Industry-Academic Cooperation Group to contribute to the development of business administration and community development through academic and practical research related to the management of construction organizations.

Chonnam National University's Management Research Institute has established and operated four specialized research centers for various projects. There are management consulting centers, big data centers, management education centers, and ESG centers. Professors, researchers, and advisors with both expertise and practical skills are presenting practical and professional services at each research center.

3. Institute for Public Affairs

Phone: 82-62-530-2289 URL: http://jnupa.jnu.ac.kr (Community - Research Center)

The purpose of the Institute for Public Affairs is to contribute to the development of studies and practice of public administration through the study and research of these fields.

The following are the projects of the Institute for Public Affairs for the accomplishment of its purpose.

- Studying and conducting research in public administration and its practice
- Conducting paid research projects and services
- The publication of academic books and theses collections
- Hosting research announcement sessions, seminars, and lectures
- Exchange with domestic and international information on public affairs

4. Engineering Research Institute

Phone: +82-62-530-1618

Established in 1965, the Engineering Research Institute is dedicated to advancing engineering technology in Gwangju and the Jeonnam region. Utilizing eminent faculty members, researchers and cutting-edge research labs, the Institute is actively engaging in academic research as well as technical projects involving engineering examination, design, estimation, and training in the region.

5. The Innovation Center for Engineering Education

Phone: +82-62-530-1626 URL: http://icee.jnu.ac.kr/

The ICEE serves as an innovative institute for engineering education in general with a future-oriented focus on generating and implementing innovative ideas for education programs, systems, environments, and teaching methodologies. It is directing improvements to creative and integrated education systems, strengthening industy-university cooperation, developing Capstone Design commercialization model and introducing excellence in engineering education. In addition, the ICEE supports accredited engineering education to produce distinguished engineers who are qualified to meet the demands of international business. Its work is focused on producing creative and multi-skilled engineers who are equipped to compete in the field of global engineering education.

6. Optoelectronics Convergence Research Center

Phone: +82-62-530-0126

Optoelectronics Convergence Research Center (OCRC) was established for the successful development of new materials and devices focusing on optoelectronics convergence.

1. Purpose

- Worldwide climate change and energy problems are arising
- Responsible environmental and climate protection with energy management is an important issue
- Needs for sustainable and abundant alternative energy sources are high
- Energy conversion, stable supply of energy, next-generation light source/display devices are the core techniques for the creation of added value in the country
- A new research center is needed for the fulfillment on the source technology development on optoelectronics

2. Current condition

- Director: Professor Jin Hyeok Kim (Department of Materials Science and Engineering)
- Date of establishment: March 1, 2015

3. Research areas and features

1) Materials Development & Characterization

- New type of materials with specific function/properties
- Graphene, complex oxides and sulfides, etc
- Establish the new analysis tools and their applications

2) Photoenergy

- New type of flexible and energy conversion devices
- Supplementation for mobile accessibility
- Establish the new analysis tools and their application

3) Luminescence/Display

- New type of growth techniques for III-V materials and phosphors
- Extremely high-efficiency luminescence devices
- Establish the physical background for the new process and device platform

7. The Institute of Educational Research

Phone: +82-62-530-2326 URL: ier.jams.or.kr

The Institute of Educational Research is dedicated to enhancing the quality of education and teacher training, promoting research and development in theory, methods and technology of teaching, and improving the education of the local community.

Since its establishment in 1973, the institute has sought ways to improve communication between teaching theory and practice.

The institute is based on the theories of pedagogy, which is the foundation of subject matter education.

Raising issues related to theories in education is another role that the institute is playing. The Journal of Educational Research and New Horizons of Educational Research are published annually. For students pursuing teacher's certificates, the institute offers special lecture services.

- Research on university education: teacher education, educational contents, class assessment
- Academic conferences for regional development of education, focusing on virtual reality, career education, and future education
- Publication of The Journal of Educational Research and New Horizons of Educational Research
- Hosting Korea, China and Japan International Symposium on Educational Issues
- Edu-tech based research and practice: design and development of VR, AR educational contents
- Research on regional education

8. Center for Global Diaspora Studies

Phone: +82 - 62 - 530−2701 Homepage: http://www.hansang.or.kr/

Center for Global Diaspora Studies was established in 2002 to examine overseas Koreans and extend the research field through various activities. The main activities of the research center are holding domestic and international academic conferences, publishing books and articles, international cooperation with universities and institutes, training graduate students for future generations, and operating research projects.

In particular, the research center has been carrying out a research project on “Diaspora as Ethnic Dispersions and Global Communication” granted by National Research Foundation of Korea since 2010 that will continue until 2018. The objectives of this project are to analyze the characteristics of diasporas not only of overseas Koreans, overseas Japanese, and overseas Chinese, but also other diasporas in the world. Furthermore, we develop the analysis framework and develop the archives to preserve the database. Recently, with the theme of “Migration and public health in the post-COVID19 era-focusing on local health commons” the National Research Foundation of Korea is cinducing a humanities and socisl research institute support project(September 2021 to August 2027).

9. Kumho Life Science Laboratory

Phone: +82−62−530−4780 URL: http://kumho.chonnam.ac.kr

The Kumho Life Science Laboratory of Chonnam National University aims to contribute to the development of life sciences of Chonnam National University by conducting research in the fields of plant life science and biotechnology.

Kumho Life and Environmental Science Laboratory was established in 1995 as a research institute affiliated with a company by the maintenance of life science development and public interest by the late Park Seong-yong, the formal Chairman of the Kumho Asiana Group. In 2006, by the agreement between Kumho Asiana Group and Kumho Petrochemical Co., Ltd. and Chonnam National University, this institute made a new start as “Chonnam National University Kumho Life Science Laboratory”. After relocating to Chonnam University, the research members of this laboratory were rebuilt to conduct research in the fields of life science and biotechnology focused on plants. In the meantime, this Laboratory makes a great contribution to the development of plant life science in Korea by performing intensive efforts in research in the field of plants.

10. AgriBio Institute of Climate Change Management

Phone: +82−62−530−2181

The goal of the AgriBio Institute of Climate Change Management is to contribute to the development of agriculture and sustainable environments by conducting various research projects and studies on agriculture, forestry and landscape, and ecosystems. In particular, the institute aims to play a leading role in developing new ideas and technologies to solve regional and international problems related to climate change in the

Honam district and Northeast Asia.

Experts from diverse research areas, such as crop production and environmental management, forestry and landscape, and natural disaster and ecology, are participating in the climate change-related research and education.

11. Research Institute for Basic Sciences

Phone: +82-62-530-3480

The Research Institute for Basic Sciences was established to enhance basic sciences by conducting research on the qualitative improvement of basic sciences. To this end, the Institute carries out the following activities:

- Conducting world-class research activities in each field thanks to basic science financial support from the Ministry of Education and Human Resources.
- Holding domestic and international academic conferences and discussion sessions on basic science issues.
- Conducting research requested by external parties, and joint studies between industry and the University

The Institute was established as a CNU-attached Applied Physics Institute in 1967, and changed its system and name to the Science and Chemistry Institute in 1970. In 1983, the CNU-attached Research Institute for Basic Sciences was born by incorporating the Marine, Science/Chemistry and Chemistry Institutes. It was designated as a central institute in Gwangju and the Jeonnam region in 1994, and is now actively working on research projects in Hydraulics, Physics, Chemistry, Biology/Environment and the global environment.

12. Institute of Aging Science

Phone: +82-62-220-6710 URL: aiagingscience.com

The Advanced Institute of Aging Science of Chonnam National University was established in April 2017 to lead the aging science and technologies through multidisciplinary convergence researches for active and smart healthy aging in the aging society. The research institute consists of an anti-aging/aging hormone research unit, a clinical aging research unit, an ICT healthcare research unit, and a management support unit. Professors and researchers from the College of Medicine, College of Engineering, College of Engineering Sciences, College of Natural Sciences, College of Nursing, and College of Human Ecology have been participating in multi-disciplinary researches.

In order to solve the problem of the aged society, we aim to lead the future aging science technologies through clinical and basic researches such as the Korean Centenarian cohort study, Artificial Intelligence (AI) in healthcare, ICT health convergence research, anti-aging and aging hormone research, and training programs for specialists in the field of age-friendly and wellness industries.

■ Field of Research

- Anti-aging and Aging Hormones
- Korean Centenarian Cohort Study
- Age-Friendly Healthcare Devices

- ICT Health Convergence
- AI in Healthcare

13. Institute of Agricultural Science and Technology

Phone: +82-62-530-2029 URL: http://asat.jnu.ac.kr/

The Institute of Agricultural Science and Technology's goal is to contribute to the development of agriculture by conducting various research projects and studies to develop agricultural technology and resources, and look for ways to increase profitability.

The Institute was originally launched as the College of Agriculture, Farm and Fishing Village Development Institute back in 1963, which changed its name to the Institute of Agricultural Science and Technology in 1991. It now performs studies on agricultural and science technology, agro-economy and agro-administration to maximize the income generated by the agricultural and fishing community. Currently the Institute has eight research departments, carrying out vigorous research activities.

14. Multi-cultural Society Center

Phone: +82-62-530-5132

The Center was established with the mission to seek proper paradigms for a multi-cultural society and to build a healthy multi-cultural community through education, support, and research activities. The Center is composed of a research, education, support and cooperation department.

The research department conducts research to re-establish traditional studies of humanities and social sciences with further accepting paradigms towards to multiculturalism.

The education department develops multi-cultural learning models and expands multi-cultural education (which focus on immigrants only) for the education of local Korean residents.

The support department strengthens the connections between immigrants and local residents, guides immigrants to create a proper identity, and resolves conflicts between immigrants and local residents. To support immigrants and their families more effectively, the department is running counseling programs for multi-cultural families. The cooperation department builds networks with related organizations to cooperate cooperation and joint research systems.

15. Dental 4D Research Institute

Tel: +82-62-530-5850, 5656

The Dental 4D Research Institute was established in 2012, for improvement of national health care services and welfare through accomplishments in digital-based research, education, publication, and developments about convergence and application in the field of dentistry. The Institute reflects requirements in the current era of computerization and leads the digitalization in dentistry.

The Dental 4D Research Institute has set its mission on global research and production of new industries

and pioneering digitalization in dentistry. The Institute has visions about convergence of digital technology with medical science related to dental clinics. Annual symposiums and exceptional seminars are held monthly.

The Dental 4D Research Institute categorized the Department of Digital Image, Department of Advanced Materials Development, and Department of Educational Publication, and also carries out efficient missions.

16. Veterinary Medicine Research Institute

Phone: +82-62-530-2805 URL: http://anis2med.jnu.ac.kr/

The Veterinary Medicine Research Institute was established in 1997 to conduct basic and applied research that can contribute to development in the field of veterinary medicine. It tries to improve the productivity of local hog raising and stock breeding, and to enrich the quality of life of the general public. To this end, it promotes the local industry utilizing livestock, and conducts research requested by external or national organizations on pets, companion animals, special, wild animals, and animals that need preserving such as Korea's Jindo dog. The Institute strives to seek practical ways to cure diseases and prevent epidemics, a main concern in related industries and livestock-breeding farms. It conducts various academic activities including holding seminars and publishing journals.

17. Institute for East Asian Studies

Phone: +82-61-659-7580 URL: http://www.east-asia.re.kr

Established in 2003, the Institute for East Asian Studies conducts academic research on issues related to the Korean Peninsula and the East Asian region.

The Institute, composed of a Director, and Divisions of Planning, Research, and Education, is engaged in the following activities:

- Research on East Asian countries
- Research on South and North Korea and unification of the two Koreas
- Academic symposiums, seminars, and lectures
- Publication of research papers
- Cooperation and exchange with other research institutes

18. The Asian Pear Research Institute

Phone: +82-62-530-2106 URL: http://www.kpear.kr/

A. Introduction

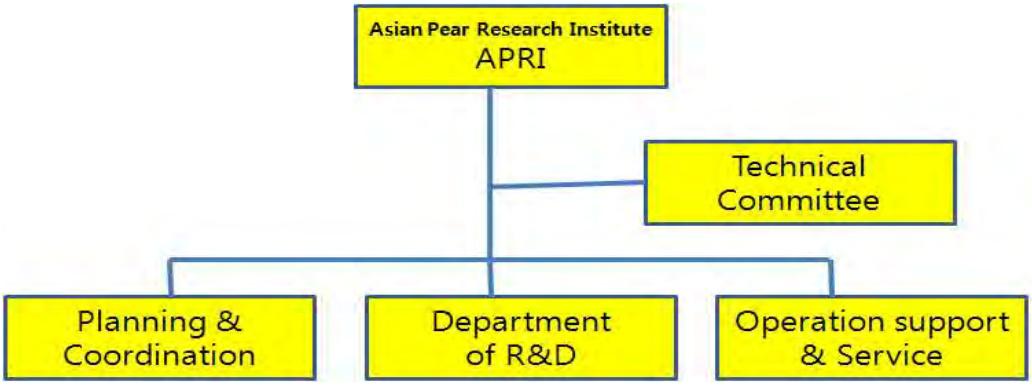
The Asian Pear Research Institute (APRI) strivers to research this fruit thoroughly with a special focus in developing the local pear industry through advanced techniques while balancing yield and sustainability.

B. Related Research Fields

- Development of Agricultural Field Application Model of digital Transformation Technology -

- Development of production stabilization technology for responses to natural hazards
- Development of quality stabilization technology through prediction of harvest period in fruit growth model using AI technology
- Development of production information-based supply stabilization technology through analysis of big data information generated by APC
- Development of pear consumption stabilization technology using edible coating technology
- Development of environmental stabilization technology by developing high value-added technology of pear waste resources
- Establishment of a living lab for on-site utilization of research results

C. Organization Chart



19. Robot Research Initiative

Phone: +82-62-530-0268

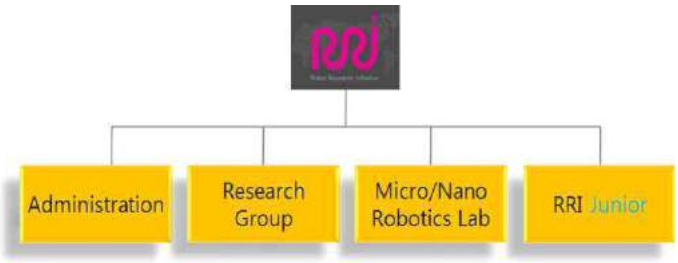
The Robot Research Initiative aims to represent the Honam area as well as Korea, and to become one of the top 5 robot centers in the world.

[Missions]

- Develop national robot projects (research and development/building foundation/develop human resources)
- Conduct large scale projects for government/local government/corporations
- Specialize in robots and become the center of excellence

[Current Conditions]

- Director: Professor Jong-oh Park (Department of Mechanical Systems Engineering)
- Date of establishment: March 31, 2008
- Organization chart



rri.re.kr
RRI portal
microrobot.re.kr
Intravascular microrobot program
bacteriobot.re.kr
Pioneer research center
micronanorobot.re.kr
Uni Lab

- Administrative office, Nano Robotics Lab: College of Engineering 1
- Bacterobot, service/medical robotics Lab: University-industry Collaboration Center 3

[Areas of research]

Micro/Nano Robotics, Medical Robotics, Intelligent Robotics, Space Robotics

[History of the Center]

Date	Content
March 31, 2008	Established as an affiliated research center
June 4, 2008	Chosen as a leading research center (CNU-XRC)
June 13, 2008	Signed an MOU with KIST Europe (Germany)
July 18, 2008	Held opening ceremonies for CNU-XRC
October 15, 2008	Hosted ISR 2008 conference
October 16, 2008	Participated in 2008 Robot World
October 20, 2008	Signed MOU with Scuola Superiore Sant`Anna (Italy)
October 21, 2008	Signed MOU with Carnegie Mellon University (USA)
January 29, 2010	Signed MOU with FUKUDA Lab (Japan)
May 13, 2010	Presented world's first microbot for blood vessel surgery
June 3, 2010	Held opening ceremonies for Bacte-robot Fusion Research Organization
July 20, 2010	Held opening ceremonies for Space Robotics Research
October 28, 2010	Participated in 2010 Robot World
November 25, 2010	Participated in Robot Expo
February 17, 2011	Hosted 1st International Space Robotics Symposium

20. Culture Technology Institute

Tel:+82-62-530-0360 URL:http://ct.jnu.ac.kr

In the 21st century, the Cultural Industry Institute receives a lot of attention as one of the highest value-added industries. Therefore, Culture Technology, as a result of supporting this industry, is being globally developed in advanced countries due to the importance of the technology. In Korea, the region of Gwang-ju city and Jeollanamdo-do is well known for maintaining the value of cultural items and their original forms. As a result, the Culture Technology Institute is more critical than any industrial things in this area.

This Institute was established to develop core technologies of the culture industry by combining advanced

sensors, imaging, and interface technology in the IT field, as well as design, human sensibility, and cultural properties in various fields. The main purpose of the institute is to contribute to the promotion of the national cultural contents industry by developing new technology which can be applied to future high-tech cultural industry through interdisciplinary fusion of engineering, humanities, sociology, culture, and art research. This institute conducts the various research activities as follows:

- Recovering traditional cultural original form and development of digital archiving technology
  - Excavation of tangible and intangible cultural original form related to traditional culture
  - High-level technology for digital archiving
  - Digital technology of converting cultural original form to digital contents

- Development of culture technology based on high-level technology
  - High-tech contents and expression technology with combination of image processing, signal processing, sensor engineering, and software programing technology
  - Intelligent interface technology for mobile and network games
  - Contents utilizing technology using the intelligent search function of web linkage
  - Contents utilization technology using the SNS and the cloud computing system
  - Production of large-scale play system by combination of gesture recognition, pattern recognition, and animation technology
  - Exhibition and education system using the tabletop display

- Supporting cultural content planning, creation, and marketing
  - Supporting expert groups for cultural content planning, creation, and marketing
  - Contract and implementation of business planning related to cultural events supporting various content creation and commercialization activities based on cultural technology

- Developing human training and commercialization technology related to cultural industry
  - Supporting cooperation-network of internal graduated researcher to cultural industry
  - Proposing national projects related to cultural industry
  - Holding seminars on culture technology
  - Maintaining industry-university collaboration for developing new cultural items
- Development of cultural industry technology with interdisciplinary co-work of humanities, sociology, culture art, design, and engineering
  - Supporting the cooperating system with culture technology institute, which will be established in the near future
  - Finding new research areas with interdisciplinary co-work
  - Developing new application technology using culture technology

21. Cultural Heritage Research Institute

Phone: +82-62-530-1336

The Cultural Heritage Research Institute is established under the R & DB Foundation of CNU to reinvent the value of cultural heritage based on the interdisciplinary program of cultural heritage in order to preserve the varieties of culture, to find sustainable values through the survey, conduct further research, and promote education of the cultural heritage. Furthermore, the Research Institute has increased its activities at the University and with Industry and Research Institutes to help revitalize the cultural industries This institute conducts the various research activities as follows:

1. Conducting academic research for domestic and international cultural heritages
2. Collecting, recording, and preserving of research data of domestic and international cultural heritages
3. Publishing academic journals and research results
4. Holding academic conferences
5. Developing contents using cultural heritage and servicing academic information
6. Developing an educational program for training professionals about cultural heritage
7. Networking with other research institutes, public institution, and related organization

22. Cultural Convergence Research Institute

Phone: +82-62-530-4087

The Cultural Convergence Research Institute was founded to contribute to the development of national and regional cultures and related industries through convergence research, creative cultural contents, and related technology development. It was established for the purpose of establishing the identity of local culture and realizing globalization by systematic and long-term comprehensive research on urban and regional development strategies. In addition, it has striven to enhance its status as a national flagship university by conducting world-class research and developing cultural contents. The institute is conducting various research activities as follows.

- Convergence culture research combining culture, tourism, and media
- Research on urban and regional development models through culture
- Research on creative cultural contents based on imagination and fostering talent
- R&D project for industry-university-academia cooperation along with consultation and seminar events
- Operation of training programs for professionals in the field of cultural convergence
- Vitalization of domestic and international academic and cultural exchanges

23. Bio-energy Research Center

Phone: +82-62-530-0266 URL: http://www.bri.or.kr/

The Bio-energy research center has been established for the purpose of research and development of sustainable and environmentally-friendly cellulosic bioenergy production. Research activities of the Bio-energy research center span a range of biological and chemical disciplines, bringing together technical and scientific expertise and instrumentation from chemistry, molecular biology, and plant science and

wood sciences. The collaborative efforts are proving successful in achieving rapid advances in technologies for maximizing biofuel production from lignocellulosic biomass.

The research center is planning to become a global research center by acquiring fundamental technologies through active research collaboration with domestic and foreign research centers and companies.

- Chemistry Process Research Division: Specializes in the development of biomaterial and research on chemical procedures
- Biotechnology Research Division: Specializes in the development of new biotechnology by utilizing advanced biotechnology
- Protein Research Division: Specializes in research on enzyme gene cloning and genetic engineering techniques
- Plant Tissue Culture Research Division
- Commercialization Research Division: Specializes in the conveyance of developed technologies to the industry
- Administration: Overall operations and international cooperation

24. Biohousing Research Institute

Tel. +82-62-530-1914, Web: http://www.biohousing.kr

The biohousing research institute aims to develop and commercialize core technologies on biohousing for the low-carbon green growth.

Role of biohousing research institute

- Operation of biohousing research facilities (Structural lab and unit lab)
- Research on biohousing technology
- Cooperation and collaboration with other industries, governments, and academies on research and policy
- Other task relevant to the purpose of the institute

The biohousing research institute is operationg the biohousing research facilities (structural lab and unit lab) that were established through the regional base research institute fostering program funded by the Ministry of Education. Based on the equipment built in the facility, structural performance tests and material tests of concrete and related products are carried out. Through this, research tasks and related projects are carried out.

25. Institute for Legal Studies

Phone: +82-62-530-2292 URL: https://cnuils.org

The Institute for Legal Studies (ILS) was established in February 2009. ILS was derived from the Institute of Law and Public Administration. The present ILS is enlisted under the Law School and consists of several centers: the Center for Public Interest and Human Rights Law, the Center for East Asian Law, the Center for Health & Medical Law, the Center for Intellectual Property Law, the Center for Trust Industry Law, the Center for Uniform of Private Law, the Center for Information Law Center, the Center

for Criminal Justice Law, the Center for Law & Literature, the Center for Consumer law.

The subjects we touch upon are not only domestic law but also foreign law. Moreover, Chonnam Law Review, which is run by the institute, is famous as a journal of law.

ILS carries out the following activities:

- Holding research seminars and academic conferences.
- Publishing Chonnam Law Review and special thesis collections
- Conducting research and studies by external request
- Cooperating and forming exchanges with academic institutes at home and abroad
- Performing activities for law school research

26. Research Institute for North Korean Agriculture

Phone: +82-62-530-2177

The North Korean Agricultural Research Institute pioneers customized agricultural cooperation projects that enhance the effectiveness and sustainability of agricultural development cooperation projects in North Korea, and researches related effective measures.

The mission of the research institute is to develop customized technologies that can lead North Korea's agricultural development cooperation projects and to foster experts in North Korea for potential reunification.

The major research areas are as follows.

1. Promote North Korea's major crop production and develop pest control technology based on environmentally-friendly agriculture
2. Development of on-site practical technology for producing customized crops in North Korea
3. The restoration of North Korea's devastated forests and herb cultivation technology development
4. Nurturing North Korean agricultural specialists to promote agricultural exchange cooperation between the two Koreas.
5. Providing effective and sustainable customized agricultural cooperation models

27. Institute of Social Sciences

Phone: +82-62-530-2700 URL: http://jnuiss.jnuac.kr/

The Research Institute for Social Science at Chonnam National University is a specialized institution that continuously conducts research in order to support theoretical foundations for social science. The institute was founded in 1975 and has a meaningful history of over 40 years. It is composed of various departments related to the humanities and social sciences, including the Department of Political Science and Diplomacy, the Department of Sociology, the Department of Psychology, the Department of Geography, the Department of Cultural Anthropology and Archaeology, the Department of Journalism and Broadcasting, the Department of Literature and Information, and the Department of Public Administration. The goal of the Institute is to bring out the academic achievements and discussion of the College of Social Sciences. The purpose of the Institution is to conduct theoretical research and lay the foundation for social sciences

with pursuing interdisciplinary cooperation through various approaches required by modern social sciences. Furthermore, it is to seek social science solutions to contemporary social problems.

28. Research Institute for Human Ecology

Phone: +82-62-530-1315 URL: http://rihe.jnuac.kr/

Human ecology seeking the value and quality of individuals and families through the improvement of living conditions is becoming a more significant field of study in the modern society of globalization, informatization, and industrialization. Since it was established in 1991, the Research Institute for Human Ecology has functioned as a comprehensive research center for humanities, social sciences, and natural sciences through international cooperation and collaborative work with Korean organizations.

The Research Institute for Human Ecology annually publishes the Journal of Human Ecology, and hosts academic conferences at least 6 times a year. Also, it has been conducting comprehensive research projects to meet human desires for a quality life, changes in society that demand industrialization of households, and welfare policies of Korea. To name a few, the Research Institute has completed the T-gate Product Information Project, the Aging-friendly Product Test and Display Project, the Multi-cultural Family Survey, the Low-income Single Parent Family Survey, the Human Resources Development Project for Senior Industry, the Welfare Policy Moderation Project, Changes in Korean Body Type Project and Fashion Culture Product Development.

29. The Convergence Research Institute of Service Design

Phone: +82-62-530-3023 URL: http://www.index.or.kr

The Convergence Research Institute of Service Design is an intellectualized design convergence lab that enhances the quality of human living by discovering products and creating new services that reflect recent innovative technology (AI, Robots, IoT, Big data, AR/VR, 3D printing, etc.).

Demands for design are becoming stronger in the age of the modern Fourth Industrial Revolution as a creative catalyst for convergence among industries, and design convergence is being given the spotlight as a creative problem-solving method for the resolution of social problems as a convergence value of creative innovation focused on users.

This lab is cultivating convergence competence through various collaborative processes in and out of school and it conducts research to resolve ill-defined problems through various experiments and challenges based on design-based thinking. In other words, it analyzes problems of various industrial and social parties, presents creative solutions, and attempts to create innovative service models.

Through this, it connects studies and industries of various fields, fulfills its role as a leading research center of service design convergence that initiates research on design convergence, and furthermore, it attempts to drive the existence value of design future indicators through continuous design convergence research.

Main research and activity fields

- Industrial and social problem resolution of the humanities, arts, engineering, deign convergence
- Service design research project performance
- Design convergence intellectualized project propulsion and performance
- The cultivation of service design convergence research professionals
- The development of service design convergence R&D systems
- The development of user-focused design convergence service platforms
- Support for the commercialization of design and ICT convergence technology

30. Equipment Diagnosis Design Engineering Research Center

Phone: +82-61-659-6937 URL: http://sdt.jnu.ac.kr

The Equipment Diagnosis design Engineering Research Center was established to improve human welfare by insuring a safe industrial working environment by securing the safety of industrial equipment through research on credibility evaluation, inspection, and design related to industrial equipment.

The center will contribute to the development of Chonnam National University and the local community through the release of leading research results, as well as diagnosing and developing prevention measures for problems with industrial equipment.

31. Sexual Medicine Research Center

Phone: +82-62-220-6710

This institute is dedicated to analyzing the physiology and pathology of sexual functions in both males and females through foundational and clinical research. Furthermore, we work to diagnose and prevent the causes of diseases that result in sexual dysfunction. Our goal is to produce leading research findings and to collaborate with both domestic and international research entities. This not only advances our academic mission but also benefits the local community. Our initiatives include:

1. Studying the prevalence rates of diseases related to sexual disorders.
2. Investigating the causes of sexual disorders and researching preventive measures.
3. Conducting basic research into the physiology and pathology of sexual functions.
4. Creating animal models to study various sexual disorders.
5. Analyzing sexual psychology and developing treatments.
6. Exploring the central nervous systems responsible for sexual function using functional imaging study
7. Designing testing equipment for diagnosing sexual disorders.
8. Developing and commercializing treatments for sexual disorders.
9. Undertaking clinical research related to medicines that address sexual functions.
10. Collaboration with domestic and international research centers focused on sexual health.

32. The Fisheries Science Institute

Phone: +82-61-659-6741, URL: http://jnufsi.jnu.ac.kr/

The mission of the Fisheries Science Institute at Chonnam National University, Yeosu Campus is to provide the comprehensive education and research needed by the fisheries and marine industries and to contribute to the development of fisheries science and technology in South Korea.

The major activities of the institute.

- Developing advanced technology and basic research on fisheries and marine science.
- Conducting planned research projects to promote business in fisheries and marine industries.
- Providing professional education and training.
- Collaborative research with government organization and businesses, and international studies.
- Providing technical training and education for fisherman and business manager.
- Collecting and managing fisheries and marine science information for the advancing fisheries technology.
- Hosting conferences, symposium, and seminars, and publishing periodical articles.
- Collection and exhibition of educational material, models, and specimens.
- Fundraising and managing the commissioned research and relevant business.

33. Aquatic Animal Hospital

Phone: +82-61-659-7177

Intensive culture practices, rapid environmental changes, and increased international trade of aquatic animals are causing high chances of widespread diseases these days. In order to control the spread of aquatic animal diseases, the 'Aquatic Animal Disease Control Act' has been reinforced since December 2008 in the Republic of Korea. The Aquatic Animal Hospital of Chonnam National University has been certified as a pathogen appraisal institute in accordance with the act.

In addition, the Aquatic Animal Hospital of Chonnam National University was registered as the university's research institute and primarily focuses on the diagnosis (or detection) of fish and shellfish diseases, recommending proper control and treatment methods. The institute accepts fish and shellfish samples showing clinical signs of disease (parasites, bacteria, viruses, fungi, etc.) for diagnosis by licensed fish doctors. A nominal fee is charged for these services. Additionally, we develop diagnostic techniques, immunization boosters, and strive to build systems for producing safe fishery products. The Aquatic Animal Hospital also conducts research projects through collaboration with other research organizations and companies.

Services

1. Detection of pathogens in accordance with the guidelines of the Aquatic Animal Disease Control Act
2. Diagnosis of fish and shellfish diseases and recommendations for proper treatment
3. Antibiotic susceptibility testing
4. Identification of parasites, bacteria, and viruses

34. System Security Research Center

Phone: +82-62-530-3714 Homepage: http://ssrc.jnu.ac.kr

With the development of information and communication technology, people and people, people and things, and things and things are closely connected based on the Internet. At the same time, as cyber -attacks that threaten the security of personal information and information networks are increasing, a system for predicting and responding to cyber threats is required.

In response to these demands, the System Security Research Center conducts security research on computer network security technology and the Internet of Things devices using Artificial Intelligence algorithms. In particular, it is working with the information security industry and national security organizations to advance the Artificial Intelligence security technology.

In 2019, the center was selected as the Graduate School of Convergence Security by the Ministry of Science and ICT. The center will train security expert who specialize in the new energy industry over the next six years. Eleven companies and organizations including KEPCO, KEPCO Knowledge, Data & Network, Korea Power Exchange, AhnLab and Wins Technet will participate in the project. The center develops training courses and operates industry-academic cooperation projects with partner organizations in order to cultivate human resources in the field of energy security.

35. Asian Culture Research Center

Phone: +82-62-530-0907 URL: http://asia.jnu.ac.kr/

The Asian Culture Research Center was established for successful national projects and the development of the community through research on Asian culture and on central cities in Asia. The Center carries out the following projects:

- Areas of research
  - Policy making related to Asian culture
  - Developing and administering education systems related to Asian culture
  - Planning research on Asian culture in school systems
  - Collaborating with other organizations and industries related to Asian culture
  - Studying business opportunities for Asian culture
  - Other research activities
- The Research Center is composed of the Planning Department, Research Department, Education Department, Cultural Industry Department, Cultural Space Department, Cultural Art Department, and Cultural Tourism Department under the director of the Center.

36. Research Institute of Pharmaceutical Sciences

Phone: +82-62-530-2953

The Research Institute of Pharmaceutical Sciences was established to promote basic pharmaceutical

research, which is the basis for new drug development, to develop new pharmaceutical technologies, and to provide a basis for joint research by activating exchanges with pharmaceutical researchers and institutions in order to contribute to the improvement of human health. The center is focusing on the following projects to become a research institute that develops core original technologies in the field of new drug development based on joint research with domestic and foreign 'excellent research institutes' and companies and industry-university-research cooperation.

- Discovering new drug targets
- Drug research related to disease prevention and various diseases
- Development of bio-active materials
- Hold academic symposiums and research seminars
- Industrial technology transfer and product commercialization

37. Fishing Technology Institute

Phone: +82-61-659-7120 URL: http://marine.chonnam.ac.kr

Yeosu is a major fishing port, containing 30% of the fish caught in South Korea. Set nets, anchovy boat seines, and lift nets are some of the more popular fishing methods or tools in the Yeosu coastal waters.

The Fishing Technology Institute, located in Yeosu, trained human resources needed for far sea fishing during the 60's, 70's and 80's together with Chonnam National University. Recently, the Institute has been focusing on developing fishing technologies for coastal fisheries, especially the Southern coast of South Korea.

Electronic engineering and machine control technologies have recently been applied to fishing gears for more productivity and sustainability in the fishing industry.

38. Institute of Fishing Villages & Aquaculture

Phone: +82-61-659-7578 URL: http://www.ifva50.jnu.ac.kr/

The purpose of the Chonnam National University Fishing Village Aquaculture Research Center is to contribute to the sustainable development of the fishery and marine industry by promoting the balanced development of fishing villages and carrying out the necessary R&D and human resource training projects. For this purpose, both tangible and intangible resources such as fishery products, nature, and the culture of specialized fishing villages for the 6th wave of industrialization are utilized to converge manufacturing and processing industries such as seafood production and processing, service industries such as distribution and tourism, and related fishery information and technological services. From these aforementioned fields, we will play a leading role in resolving the problems faced by fishing villages and the wider fisheries industry.

Field of research activities

- Comprehensive industrialization of fishing village resources and creation of specialized amenity environment for fishing villages

- Provision of marine environmental and spatial information, and fisheries restoration technology
- Environmental capacity management of fishing grounds and aquaculture Industry technology development
- Development of resource management models & technology through marine ecological monitoring and fisheries resource information analysis
- Development of technology for damage reduction of natural disasters and control of harmful organisms in ecosystems.
- Development of capacity enhancement program for fishing villages and specialized training in fisheries technology and aquaculture
- Consultation for government agencies and industrial bodies and the conducting of cooperative research between industry and academia, coupled with commissioned research

39. The Yeosu Area Studies Institute

Phone: +82-61-659-6236 URL: http://www.yeosu.re.kr

The Yeosu Area Studies Institute conducts multidisciplinary and interdisciplinary research on the culture, politics, economics, society, and environment of Yeosu. Its goal is to establish comprehensive Yeosu studies and contribute to the development of the local community.

The institute engages in various activities such as academic research on local issues, exchanges with related research institutions, organizing academic conferences, publishing academic journals, developing and operating educational programs, and more.

The institute engages in various activities such as projects that meet the researcher's goals, comprehensive and systematic academic research on local issues, regional and common cultural areas, exchanges with related research institutions, holding academic conferences, publishing academic journals, and developing and operating educational programs.

Since its establishment in 2022, the institute held (1) an inaugural symposium that examined the significance and prospects of the launch of the Yeosu Studies Institute, and (2) three Yeosu Studies forums to come up with the direction for resolving local issues through exploration of previous cases.

40. Research Center for History and Culture

Phone: +82-62-530-0788 URL: http://cafe.daum.net/history0788

The Research Center for History and Culture conducts comprehensive studies on Korean history, as well as Asian and Western history. It strives to build an organic and comprehensive research system with related fields of study, and to develop history education programs and content for various demands. It also attempts to contribute to the popularization of historical content and creation of a new culture. To achieve these goals, the Center carries out the following activities:

- The study of Korean, Asian, and Western History comprehensively and systematically
- The investigation of methods tying in with related fields of studies and academic exchanges
- Operating a stable research support program for future generations of scholars and researchers
- Operating various educational programs to teach history and culture in step with the popularization of history study

41. Institute of Coastal Environment Research

Phone: +82-61-659-6970 URL: http://icer.re.kr

After its establishment in 1992 as the Environmental Research Institute, the Institute was renamed the Coastal Environment Research Institute in March 2007. The Institute aims to develop environmental technology to overcome pending issues in the environment, improve the environment in all aspects, and to promote the development of the local community and the nation by researching region-specific environmental problems.

As an endeavor to fulfill this goal, the Institute develops environmental technology, provides education and training on environmental conservation, holds academic seminars and workshops to present research findings, collects research data and materials, publishes papers, conducts research projects commissioned to the Institute, and provides consulting. The Coastal Environment Research Institute is composed of the research divisions of Coastal Environment Management, Industrial Complex Environmental Management, Environmental Safety and Disaster Prevention, and Natural Environment Management.

The Coastal Environmental Research Institute has achieved remarkable achievements such as solving environmental problems and developing environmental technologies centered on the Gwangyang Bay area, including 20 publications of academic papers (226 articles), 109 research projects, 95 seminars and workshops, and 152 policy consultations.

42. The British/American Studies Institute

Phone: +82-62-530-3120 URL: http://altair.chonnam.ac.kr/~eculture/

The British/American Studies Institute was established to improve the understanding of American and British culture through various academic activities involving English-speaking nations. To this end, the Institute invites scholars at home and abroad to hold open lectures and seminars on the history, politics, society, literature, and the arts of English-speaking nations. In addition, the Institute collects books and material for the study of these areas, and holds study sessions on a regular basis to deepen understanding of these cultures.

In the future, the Institute will strengthen ties with the Korean studies institutes working in English-speaking countries. To realize these goals, it will increase academic exchanges with English Studies institutes in foreign countries to invigorate the study of American and British cultures.

43. Art Research Institute

Phone: +82-62-530-3007

The goal of the Art Research Institute is to revitalize the local art community and promote development of culture through information exchange, data collection, and public relations. Since its establishment in 1992, the Art Research Institute has conducted comprehensive research on regional art, culture of art and music, and classical Korean music. The Institute also publishes an academic journal, Collected Papers on Art, biennially. The detailed list of activities of the Art Research Institute is as follows:

- Publication of papers and resource books
- Promotion of regional and international art exchanges
- Study and production of pieces of art in the city
- Joint musical performances with other regions and international exchanges
- Research of the music of the Jeonnam region planning of lectures by invited guests
- Popularization and globalization of Korean music
- Research of different characteristics of Korean music in various regions

44. Space Particle Research Center

Phone: +82-62-530-3484 URL: http://168.131.177.72/g5/bbs/group.php?gr_id=cepl

Space particles invoke curiosity and provides key information to understanding the standard theory and modern physics. The discovery of neutrino vibration through the study of atmosphere neutrino and solar neutrino has made a quantum leap beyond the grand unified theory based on the standard theory. Therefore, this Center intends to conduct research on key issues of modern physics such as the characteristics of space particles, the development of space particle detectors, dark matter, and the origin of space.

The Center also aims to expand the research capacities of graduate school students and promote Chonnam National University through joint research projects with the world's best space research centers: Fermi National Accelerator Laboratory of the USA, CERN (Conseil Europeen pour la Recherche Nucleaire) of Europe, DESY (Deutsches Elektronen Synchrotron) of Germany, KEK (The High Energy Accelerator Research Organization) of Japan, and the Spaceship Center at Tokyo University.

45. Institute of Eurasian Studies and Digital Humanity

Phone: +82-62-530-2460

The purpose of the Eurasian Institute is to promote interdisciplinary research amongst different fields of study related to the culture of the European and Asian regions. The institute contributes to the academic development of Gwangju and the South Jeolla Province, and also Korea by establishing a sound research structure, cooperating with related domestic and international research institutes to study the different aspects of the cultures and societies of the two continents.

Major projects of the institute include:

- Structuring focused research on boundary and methodology
- Conducting research projects
- Digital Humanity research projects
- Publication of the Chonnam University Eurasian Studies series
- Holding seminars and forums on Eurasian Studies
- Holding domestic and international conferences
- Exchange with domestic and international research organizations and the invitation of scholars
- The research, sorting, and evaluation of data and database structuring

46. Research Institute of Medical Sciences

Phone: +82-61-379-2881 URL: http://medicine.jnu.ac.kr/

The Research Institute of Medical Sciences came into existence on November 21, 1979, and contributes to the development of medical sciences and the improvement of public health by studying cooperatively pressing issues.

The Center is composed of the Director, General Manager, and research departments, focusing on the following activities:

- Developing research tasks in basic and clinical medicine and offering financial support
- Hosting domestic and overseas academic symposia and delivering presentations of research results sponsored by the Institute
- Publishing journals, newsletters, and medical education materials
- Nurturing competent researchers, offering them chances to study abroad, and supporting discussion sessions
- Providing high-tech equipment for various analysis activities

47. Yi Sunshin Marine Culture Research Center

Phone: +82-61-659-6580(Director), 6583(office) URL: http://ymcri.jnu.ac.kr/

The Yi Sunshin Marine Culture Research Center was established in July 2007, after the 2006 merger between Chonnam National University and Yeosu University, to contribute to the distribution of marine culture and its development through comprehensive research on marine culture.

The center will comprehensively and systematically study the marine culture of the Jeolla region, East Asia and the world to transform it into a cultural and spiritual asset, utilizing it as a foundation of creating new culture.

The center will firmly establish the position of Chonnam National University as a leading school in East Asian and global marine culture research and support the success and legacy of the Expo Yeosu 2012 academically.

For the above purpose, the research center conducts comprehensive research on marine culture, collecting research data, publishing academic magazines including the Marine Culture Research, or Marine Culture Studies, holding academic conferences and exchanges in various ways including ideas and human resources with domestic and international research organizations and societies.

48. Artificial Intelligence Convergence Research Institute

Phone: +82-62-530-0430 URL: http://aicri.jnu.ac.kr

The Artificial Intelligence Convergence Research Institute(AICRI) was established in January 2019, and has 17 AI expert professors from the Engineering College, Natural Science College, and Medical College, including the Director Prof. Hyung-Jeong Yang. This Institute tries to apply AI and machine learning technologies to various applications, such as medical, healthcare, finance, automobile, military, mass

production, electronic marketing, agriculture, arts, entertainment, energy, legal application, and so on, with the purpose of leading a nationwide 4th industrial revolution. In addition, this Institute focuses on the development of multi-modal AI technologies which combining visual, speech, linguistic, and emotional intelligences, education of AI convergence experts, establishing domestic as well as international cooperative networks among AI convergence experts, and hosting several leading research centers.

49. Research Institute for Humanities

Phone: +82-62-530-3119 URL: http://ioh.jnu.ac.kr

This Institute aims to contribute to the humanities locally and globally through interdisciplinary research and joint research on humanities. In particular, the Institute carries out the following tasks in order to review current studies of humanities and to plan ways of practicing and applying research results.

- Building up and intensifying interdisciplinary and convergence research.
- Leading future humanities after the 4th industrial revolution.
- Training humanities experts and extending the outcomes.
- Creating and fulfilling models of the popularization of humanities.

50. Institute of Humanities

Phone: +82-62-530-5218 URL: http://jnuinmun.org

The Institute of Humanities was founded in 2017 as a consortium of five research institutions (Research Institute for Humanities, Research Center for History and Culture, Korean Language and Literature Studies Institute, the British/American Studies Institute, Center for Philosophical Studies). Through the inter-disciplinary and muti-disciplinary collaboration, it systematically explores and develops urgent and pressing agendas and seeks to engage in open, informed and nonpartisan dialogues on historically relevant issues.

The Institute has been selected by the National Research Foundation of Korea to be included as part of the National Strategies Research in Humanities Korea (HK+). Accordingly, the Institute has initiated a 7-year research project with the agenda, “Family-Community Humanities for the Integration and Communications in the Trans-Individual Era”, funded by the National Research Foundation of Korea. During the first 3-year period (2018~2020), the Institute published various books including *The Re-signification of the Family and the Challenges of the Community*, *What is Community Studies?*, *Family Humanities: Who Am I Going To Live With?*, *Family-Community Humanities Index Research*, and *Analytical Report of Comprehensive Regional Family Satisfaction Index*. For the second 4-year period (2021~2024), the Institute will expand and deepen its research project.

In the face of the increasing disintegration of traditional communities including family and local community, and of unprecedented upsurge of individualism, the Institute focuses on diagnosing and analyzing the ground-changing transformation and tries to develop humanities discourses that have explanatory power as well as the capacity to entail ethical and political practice. Specifically, it imagines coming communities in the age of the 4th industrial revolution, investigates possibilities of new family forms that embrace

multi-cultural determinations, and tries to suggest specific family-community policies that the state can utilize to resolve various family-related social problems. It ultimately aims to propose family-community discourses in Humanities that will suggest a new way of thinking politics on the level of State and also on the level of everyday life.

The Institute, while enhancing collaborative research among multiple disciplines along with Research Institute for Human Ecology and the Big Data Center, mediates theory and practice to re-vitalize Humanities Studies. Its visions and mottos are:

- to accumulate and systematize inter-disciplinary and muti-disciplinary collaboration
- to explore agendas that are relevant to the current Korean society and develop discourses accordingly
- to nurture Humanities scholars and to disseminate research achievements
- to develop and implement Humanities programs for general public

51. Research Center for Japanese Studies

Phone: +82-62-530-3288 URL: http://jss.jnu.ac.kr/

The goal of the Research Center for Japanese Studies is to develop Japanese studies in Korea, to contribute to a greater understanding between Korea and Japan, and initiate cultural exchanges. It also strives to develop the local community at the same time by building a database of Japanese studies and conducting comprehensive and systematic studies on Japan in terms of language, culture, folklore, history, politics, economics, and society.

To achieve this goal, the Center plans to host domestic and international academic conferences, publish academic journals, collect research material, and perform an increasing amount of exchanges on this topic with domestic and foreign universities and academic institutes.

52. Automobile Research Center

Phone: +82-62-530-1980 URL: http://motors.jnu.ac.kr

The Automobile Research Center(ARC) was established in 1995, fueling the research of advanced automobile technologies, building an automobile infrastructure, and promoting collaboration between industry and academia in automobile research. ARC is carrying out the following actions as of below

- Holding International Conference on Advanced Automotive Technology(ICAT)
- Promoting collaboration with industry, academia in automobile research, research institute and regional government
- Supporting technical items for automobile related industries
- Revitalizing research in automotive technology related to industry
- Development of policy issues for specialized automotive technology
- Publishing the Journal of Machinery & Automobile Research and technical information service

53. Information Technology Research Institute

Phone: +82-61-659-7434 URL: http://isrc.chonnam.ac.kr

The Information Technology Research Institute was established to manage research projects in the fields of information technology and related comprehensive research toward qualitative improvement and development of information technology. The main objective of the Institute is to oversee organization and operation of research in information technology.

Among the Institute's major activities are:

- Data collection and analysis of information technology
- Research on applications of information technology, technology development, and education
- Commissioning research on applied information technology and joint research of industry and academia
- Policy research for consulting information technology
- Lectures, presentations of research findings, academic seminars
- Publication of research reports and papers

54. Information Technology Research Institute

Phone: +82-61-659-1796

The Information Technology Research Institute was established to manage research projects in the fields of information technology and related comprehensive research toward qualitative improvement and development of information technology. The main objective of the Institute is to oversee organization and operation of research in information technology.

Institute's major activities

- Data collection and analysis of information technology
- Research on applications of information technology, technology development, and education
- Commissioning research on applied information technology and joint research of industry and academia
- Policy research for consulting information technology
- Lectures, presentations of research findings, academic seminars
- Publication of research reports and papers

55. Gender Research Institute

Phone: +82-62-530-2615 URL: https://women.jnu.ac.kr/women/index.do

The Institute of Women's Studies aims to bring about ways to prompt gender equality, to develop potential female talent, and to improve women's social status. To achieve these goals, it has conducted studies and activities to increase the role of women in the society since its establishment in 2000.

In terms of gender-related study, the Institute holds regular academic conferences and discussion sessions, and conducts interdisciplinary joint research projects, thereby creating chances for domestic and foreign scholars to exchange information and thoughts and broadening their academic horizons. In the local community, the Institute collects data on the current situation of female rights in this region and provides programs

that can enhance the ability and possibility to work in cooperation with the Gwangju Metropolitan Government, women's rights organizations, and the Ministry of Gender Equality and Family. In addition, it also hosts leadership camps targeting CNU female students to nurture them into leaders for future generations, and an employment-enhancing program for women.

56. Institute for Religion and Culture

Phone: +82-62-530-3910 URL: http://www.rcicnu.jnu.ac.kr/

The Institute for Religion and Culture conducts research and studies on primitive religions, historical religions, new-emerging religions, Asian and Western religions, and the cultural phenomena accompanying the rises and falls of these religions using research methods in the colleges of humanities and social studies. Through these activities, the Institute expects to contribute to the development of these fields of study, and increase the exchanges and understanding among people, religions, and cultures.

To this end, the Institute publishes academic journals, and holds academic seminars and conferences on a regular basis. Through cooperation and exchanges with research centers at home and abroad, it pursues the evolution of studies of religion and culture.

57. Center for Regional Development

Phone: +82-62-530-1428 URL: http://crd.chonnam.ac.kr/

The Center for Regional Development (CRD) was founded in May 1968 as a policy research institute and based at Chonnam National University in Gwangju. It has since played a leading role as a research center for regional development in Southwestern Korea. It focuses on solving general issues of the local region through research and analysis of the local economy, society, city planning, environment, and transportation.

Through comprehensive research and analysis of the current economy, society, city planning, environment, and transportation, the Institute strives to solve related issues through the suggestion of a regional development model.

It has published its research results in the form of reports, press releases, web-site access, bulletins, and a semi-annual research journal, Studies in Regional Development, generating a steady series of books and reports on special topics. In step with globalization, it hosts an international academic conference in cooperation with Fudan University in China, Saga University in Japan, and Kasetsart University in Thailand.

The institute is making greater efforts along with businesses and public organizations to nurture development in Gwangju and the Jeonnam region. It aims to become a central institute linking industry and academia in this region.

58. Research Institute for Creativity Education

Phone: +82-62-530-3905

This research institute was established in 2019 to take a leading role in researching and spreading science creativity, fostering the competent truth-seekers in the field and serving the local community. The institute aims to actively respond to the diverse needs of the local community and the university

by researching, developing, and implementing talent development programs based on the experience and expertise of the Science Education Institute for the Gifted.

Accordingly, research and development of programs for STEM+I Class (2020~present), Creative Design Camp (2020-2021), and Science and Engineering Career Camp for talented (2021) are being carried out, contributing to nurturing local communities and creative talents.

- Development and research of creativity education/gifted education/science museum education programs
- Selection and education of students gifted in science
- Training and support in creativity education for professionals

59. Center for Philosophical Studies

Phone: +82 - 62 - 530-3291 URL: http://sophia.jnu.ac.kr/

The Center focuses on maximizing the efficiency of the study of philosophy by conducting systematic, professional, and comprehensive studies of Asian and Western philosophical thoughts. Also the Center has a will to strengthen and expand its educational functions by running post-doctoral support programs, developing philosophy education content and programs, offering open lectures, setting up philosophy camps for local residents. By deepening academic level of study and working for the popularization of philosophy at the same time, the Center aims to contribute acceptable norms in modern society and normal and create future cultural trends.

- Studying on Asian and Western philosophical thoughts systematically, professionally and comprehensively
- Considering of interdisciplinary approach between humanities & social sciences and natural sciences
- Running research-supporting programs for future generations
- Developing educational philosophy education content and conducting programs for a wider audience

60. Research Institute for Catalysis

Phone: +82-62-530-1769

This Institute was established in December 1977 under the presidential decree 8841 as an affiliated research center to the College of Engineering. In December 1982, it changed its name to the Catalysis Research Institute under the presidential decree 11018. Since then, the Institute has studied general technologies related to catalysis.

The Institute has contributed to the development of industry and the promotion of knowledge by conducting research, hosting conferences, and by publishing journals.

In 2007, the institute was chosen as by Priority Research Centers Program through the National Research Foundation of Korea to carry out “Clean Energy Catalyst Development Project for Next Generation” and successfully undertook three stages of project on development and process of eco-friendly catalyst for 9 years.

- Developing functional catalysis for clean energy
- Developing clean energy manufacturing process using photons
- Developing nano-based clean energy manufacturing process

Based on the research achievement obtained from Priority Research Centers Program through the National Research Foundation of Korea, we have carry out research collaborations with local governments and many companies to solve environmental issues, such as;

- Development and fabrication process of fuel oil catalyst from daily wastes
- Development of concrete pavements block with photocatalyst and evaluation of its performance for removal of nitrogen oxides
- Development of photocatalyst paint and monitoring reduction of nitrogen oxides at sites
- Development and evaluation of customized photocatalyst products requested by companies

61. Dental Science Research Institute

Phone: +82-62-530-4800 URL: http://dsri.chonnam.ac.kr

The Dental Science Research Institute was established in 1992, aiming to create leading, world-class research in dental sciences. The researchers of the institute are made up of professors of Chonnam National University Dental School and other personnel. They are actively conducting diverse research with funding from both the government and industry. It also contributes to the development of dental sciences by publishing a dental journal, providing continuing education programs, and holding academic meetings. Moreover, the institute awards prizes to outstanding researchers and supports its staff in many other positive, motivating ways.

62. Institute of Environmentally-Friendly Agriculture

Phone: +82-62-530-0397 URL: http://iefa.jnuac.kr/

The Institute of Environmentally-Friendly Agriculture is a premier institute that develops environmentally-friendly agro-materials which can be used as effective and safe crop protectants, and educate organic farmers to use the developed products and technology for sustainable food and agricultural systems.

The Institute was established in 2011 in response to requests by Jeollanamdo and Ministry of Agriculture, Food, and Fishery and supporters to provide science-based on information to Korea's existing organic farmers and to newcomers to organic agricultural production. The institute consists of Chonnam National University Professors and Scientists, Jennam farmers, and five agricultural companies which relate to develop and commercialize materials and technology of CNU scientists. This interdisciplinary team works together to develop research related to plant pest control by environmentally-friendly means, and the invented materials and technology are transferred to industrials and are used to train organic farmers and students. The ultimate goal of the institute is to enhance the vitality of organic agriculture using the developed cost and efficiency effective means and technology in Korea.

63. Institute of French Cultural & Regional Studies

Phone : +82 (062) 530-3190

The purpose of the institute is to promote multi-disciplinary and scholarly research and education about Francophone countries including France, their cultures, language, politics, economies, and society. The

institute was founded by the necessity of research on French cultural and regional studies which can be a part of the sustainable growth engine of Korea in the 21st century.

The institute would like to play a major role in crossing forging links between France with Quebec, Belgium, Switzerland, and African francophone countries. To achieve this goal, we have the following major business plans.

Major projects of the institute include:

- Publication of journals
- Organizing and sponsoring academic conferences
- Published Francophone books
- Exchange with domestic and foreign institutes and organizations
- Development of a French Regional Studies education program
- Construction of a Digital archiving system

64. Student Independence Movement Institute

Phone: +82-62-530-0610

Efforts to establish the Korean independence movement in the recorded history of world independence movements are desperately needed through specialized research institutes for intellectual understanding of modern social movements in the Asian region, centering on the student movement. This research institute aims to lead detailed and in-depth research on the past and present of student independence movements in various places before and after the Gwangju Student Independence Movement, especially at home and abroad under Japanese colonial rule. In addition, it aims to contribute to the development of talent and academic development that will lead the future of the nation by revealing the situation and specificity of the student independence movement in the context of world history.

The main activities as follows:

- The development and implementation of interdisciplinary cooperative research projects for student independence and student civil rights movements
- Academic events related to student independence and national movements
- Development of historical records and cultural contents related to the student independence movement
- Academic exchanges with domestic and foreign student independence movement education and research institutes
- Collection, compilation, and publication of research materials related to the student independence movement
- Other projects deemed necessary in relation to the purpose of establishment of the research institute

65. Korea Cardiovascular Stent Research Institute

Phone: +82-61-392-6243 URL: http://koreastent.com/

Since its inception in April 2010, the Korea Cardiovascular Stent Research Institute has been making

ceaseless efforts to be the best in the world, in the same vein as a heart that works ceaselessly. Cardiovascular disease is the leading cause of death in the world and the cardiovascular stent tops the list of imported medical devices in Korea.

In order to meet the growing demand, our institute has developed a novel coronary stent for the first time in Korea, validated its safety and efficacy through a large number of bench and animal experiments, and published the related technologies in many domestic and international papers.

The Korea Cardiovascular Stent Research Institute will make its best endeavors to develop new technologies and product innovations and to contribute to the advancement of biotechnology by promoting domestic and international research networking as well as collaboration.

66. Korean Language and Literature Studies Institute

Phone: +82-62-530-3299 URL: http://eomun.jnuac.kr

The Korean Language and Literature Studies Institute is composed of professors and researchers from the Department of Korean Language and Literature at in the College of Humanities and the Department of Korean Education at the College of Education. Through its extensive academic researches on both Korean language and literature, the institute aims to foster human resources required by the contemporary knowledge-based society, share and spread the research results, and ultimately contribute to the development of Korean language and literature. The institute also aims to contribute to the development of Korean language education by combining education and research activities to improve Korean language skills. The main activities are as follows:

- Operation of a comprehensive research program on Korean language and literature
- Support various academic research on Korean language and literature
- Research on Korean language and literature education and the operation of related programs
- Facilitate joint research and cooperative exchanges with other disciplines
- Operation of research support programs for the next generation in the discipline

In addition, the institute has continued to organize domestic and international academic conferences in cooperation with related academic societies and research institutes, plan and publish of research collections, including the publication of the Journal of EOMUNNONCHONG.

67. Experimental Center for Coastal & Harbor Engineering (ECCHE)

Phone +82-61-659-6957 URL: https://www.koced.or.kr/facility/sub61

1. Purpose

- Laboratory facilities equipped with the naiton's largest coastal harbor test centers
- Marine renewable energy(offshore wind, wave power, tidal power, etc.): regarding the construction and design of facilities; also cooperation between academia and industry
- International scale workshops, seminars and graduate students and researchers in the study of high-quality human resource straining tailored industry

- International coastal harbor engineering
- Local industrial development and sustainable coastal environment

2. Research areas and features

1) Coastal & harbor structures, develop a disaster mitigation and disaster response
   - New types of coastal & harbor structures
   - Stability of coastal & harbor structures
   - Establish disaster reduction technologies and measures derived measures, etc.

2) Wave test
   - Spread of wave variants
   - Agitation within harbors
   - Wave structure interaction evaluation
   - Evaluation of hydraulic characteristics of harbor structures
   - Nearshore currents

3) Sediment experiments
   - Beach modification
   - Establishment of coastal erosion measures

4) Ocean energy
   - Tidal power
   - Wave power
   - Offshore wind farms

5) Fisheries experimental facility test
   - Cultural stability testing and artificial reefs

68. Smart City Institute

Phone: +82-61-659-6916, Fax: +82-61-659-6917

The Research Institute of Ocean Civil Engineering Technology aims to advance engineering technologies regarding regional development, disaster prevention, and construction safety by conducting research and education projects on issues related to the ocean civil engineering industry. Major activities of the Institute include (1) data collection and analysis for the leading technologies in the construction industry, (2) conducting research and education projects for the construction technology, (3) providing technical consultation for the revitalization of the local and national construction industry, (4) hosting of lectures, presentation of research findings, seminars, and (5) publication of research reports and papers.

69. Overseas Resource Development Research Center

Phone: +82-62-530-1720 Homepage: http://oversee.jnu.ac.kr

Countries of the world have already entered the never-ending competition to secure natural resources. Natural resource exporting countries in South America, Southeast Asia, and Africa are raising their prices

through resource nationalism while newly industrialized countries such as China and India are practically becoming black holes of resources. This leads to predictions that the competition among countries to win resources will become fiercer.

Korea depends on imports for 97% of its natural resources and cannot pull back anymore when it comes to securing natural resources.

With the current economic structure, which focuses on exporting manufactured products, price increases in materials are having a much greater impact on Korean than some other countries. This is why the development of overseas natural resources is important.

The center was established for the following reasons: to research and develop related technologies that enable Korea to compete with leading countries, to engage in resource exploring, and develop technology that can be commercialized through joint research with related companies. Through these courses, the center also trains graduate students and those from the industry.

70. Research Center for Healthcare Convergence Technology

Phone: +82-61-659-7360

The Research Center for Healthcare and Biomedical Engineering at Chonnam National University has been established to promote the biomedical breakthrough and public healthcare enhancement through education, research, and collaboration with Industry and Academia. We are committed to integrating multidisciplinary technologies to develop innovative biomedical technologies and further ensure national technological competitiveness in extensive biomedical research. To accomplish this, the center currently consists of three major research divisions:

- Research division for Biomaterials: The division aims to provide solid research results for the delivery of high-quality medical care for animals and humans. Research interests include biocompatible materials, health-related functional food, natural cosmetics, natural antibiotics, and intelligent drug delivery systems.
- Research division for digital healthcare-wellness: The division aims to develop cutting-edge medical/health care systems for ultimately providing a better quality of life. Research interests include Big data analytics, Data-driven medicine, Mobile healthcare, Population health management, and Smart hospitals for future personalized medicine by creating, managing, and analyzing various vital data of life information.
- Research division for medical equipment: The division aims to develop innovative diagnostic and therapeutic technologies for early diagnosis, real-time monitoring, and target-therapy in various incurable diseases in a personalized Medicare system. Research interests include in-vivo and in-vitro medical equipment, morphological/functional/molecular imaging modalities, wearable medical devices, and point-of-care systems.

71. Honam Buddhism Culture Research Center

Phone: +82-62-530-3235 URL: https://www.kbpf.org/134938/134938/

The Honam Buddhism Culture Research Center was established to enable experts to conduct research

and share their results with the general public.

The following are the projects being conducted by the center:

- Discovering and Organizing Buddhist Cultural Assets
- Research on Buddhism
- Lectures on Buddhism for the general public
- Holding of conferences

72. Institute of Honam Studies

Phone: +82-62-530-2710 Homepage: http://www.homun.or.kr

The Institute of Honam Studies was formed as a result of the merger of the former Honam Culture Research Center and the Honam Studies Research Group. The former was established in 1963 to study traditional Korean culture from a local point of view and the latter was established in 2005 for the purpose of searching through the abundant history and culture of the Jeolla region. The merger has allowed for a transformation of cultural content that successfully utilizes both centers.

Academically, the research institute has worked to uncover the issues on Korean culture that are worth discussing in an academic manner. In a practical way, it developed Korean culture to become content that can be communicated to the international population. By doing so, the Institute of Honam Studies has become a comprehensive research center, positioning itself as one of the main humanities research institutes at Chonnam National University. Along with research, the center is active in publishing its work, which includes more than 72 editions of 'The Journal of Honam Studies' Series.

The Journal of Honam Studies, an academic magazine, is published biannually. The magazine was selected as a candidate to be registered in the Korea Research Foundation's list in 2006.
The center's current research on the sensibility of Honam, and in a wider perspective, of Korea under the name of Establishment of Korean Sensibility as an International Communication Code was selected by the National Research Foundation's Humanity Korea Support Project 2008.

Furthermore, the Institute of Honam Studies was selected for the 'Humanities Korea Plus (HK+) Project' in 2018, the project is being carried out under the agenda of 'Emotion-Humanities for Transversal Universality in the Age of Decentralization: Place, Medium, and Narrative.'

In 2020, the Institute of Honam Studies established a graduate school department of Honam Studies to serve as an educational institution specializing in regional studies.

2023 marks the 60th anniversary of the establishment of the Institute of Honam Studies.

The Institute of Honam Studies is seeking fundamental innovation and transformation of regional studies research methodology under the theme of "Honam Studies that encompasses the region and the world, tradition and modernity."

In addition, with the goal of "Globalization of Honam studies" for the next 60 years, we are working hard to create new theories and horizons for Honam studies based on the vast amount of data and achievements accumulated so far.

The following are the research and academic activities of the center:

- Research in traditional Korean culture focusing on the Honam Area
- Research of arts and culture policies and comparative culture
- Data gathering
- Publishing of research papers and journalistic series
- Holding announcements on research and conferences
- Concentrating research capacity
- Fortifying the ability to publish research results
- Increasing educational activities on Korean studies and the spreading of Honam culture
- Uploading gathered data into a digitized database (creation of a center homepage and installation of a Honam Area Studies repository)
- Conducting research supported by the National Research Foundation's Humanities Korea Project

73. May 18 Institute

Phone: +82-62-530-3916 URL: http://cnu518.jnu.ac.kr/

In order to further explore the consequences and significance of the 5.18 Democratic Movement and to contribute to the evolution of democracy and the general improvement of human rights in Korea, the May 18thInstitute has continued to carry out the following activities since its establishment on December 10th 1996:

- The research of material and documents related to the 5·18 Movement
- Publishing and advertising research results, as well as presenting them to the public
- Offering information on the 5·18 Movement to foreign countries as well as to the general public in Korea
- The study and application of ideologies on democracy, human rights, and peace

Every May, the Institute hosts large-scale domestic and overseas academic conferences, publishes research & thesis collections, creates an anthology, and produces brochures on the 5·18 Movement in Gwangju. To support these activities, the Institute strives to emphasize democratic values. The Institute's journal, *Democracy and Human Rights*, issued quarterly, has been designated as one of the Korea Research Foundation's Registration Journals, giving it the status of a nationally acclaimed periodical. In the future, the Institute will operate various educational programs on democracy and human rights, and establish a database of materials pertaining to the 5·18 Movement. It seeks ways to become a democratic human rights and peace center in Asia through vigorous exchanges and cooperation with research institutes both at home and abroad.

74. Fishery Resource Mangement Research Center Based on ICT

Phone: +82-61-659-6920 URL: http://fmrc.jnu.ac.kr/

The purpose of this institute is to provide systematic educational services for field research and basic research for sustainable fishery resource management, for the development and education of comprehensive fishery resource management technology including technology closely related to 4th industrial revolution, and for the training of fishery resource management experts. For this purpose, the institute carries out the following projects:

- Development and operation of educational curricula and contents

- Core technology research and field application service development
- Fostering fishery experts
- Support and management of the “Professional Manpower Certification System”
- Conducting industry-university-academy-public agency cooperative projects
- Other tasks that meet the purpose of the research institute

Ⅶ. Graduate Schools

Nursing

Contact Information
Phone: +82-62-530-4939
Fax: +82-62-220-4544
E-mail: a1045@jnu.ac.kr
URL: http://nursing.jnu.ac.kr/

■ Graduate Studies in Nursing

The goals of the graduate program in Nursing are:

1. To empower students to conduct nursing research for the purpose of generating and testing nursing knowledge.
2. To acquire professional nursing knowledge and skills, and to develop problem-solving competency in practice.
3. To demonstrate leadership roles appropriate for nursing and the healthcare system in general.
4. To prepare for expanding nursing roles contributing to the health of human beings.

■ Degree Requirements

- Master of Science degree candidates must complete 3 core courses (9 credits) and five electives (15 credits). To be awarded the degree, all students must pass a qualifying exam and a foreign language exam prior to submitting a thesis. Students must deliver a presentation, successfully complete a defense, and provide all required documents to the thesis committee.
- PhD candidates must complete 6 core courses (18 credits) and 6 electives (18 credits). To be awarded the degree, all students must pass a qualifying exam and a foreign language exam before submitting a dissertation. Students must deliver a presentation, successfully complete a defense, and provide all required documents to the dissertation committee.

■ What Do You Study?

Core Courses

▌Master of Science Program
Nursing Theory (3)
Nursing Research (3)
Health Statistics (3)

▌PhD Program
Nursing Science (3)
Nursing Theory Development (3)
Quantitative Research 1 (3)
Qualitative Research in Nursing (3)
Quantitative Research 2 (3)
Nursing Research Seminar (3)

Elective Courses

Family Nursing and Family Therapy (3)
Concept Development in Nursing (3)
Trauma and Healthcare (3)
Analysis for Nursing Research (3)
Nursing Profession (3)
Organizational Management in Nursing (3)
Development of Nursing Interventions (3)
Philosophy of Nursing Science (3)
Methodology and Application in Evidence-based Nursing (3)
Seminar for Older People's Health Problem (3)
Nursing for patients with chronic diseases (3)
Advanced Health Assesment (3)
Bioethics and Nursing Issue (3)
Seminars in Stress & Symptom Management (3)
Faculty Development (3)
Theory of Human Behavior (3)
Biophysiological measurement and evaluation (3)
Clinical Physiology (3)
Process of Decision Making in Clinical Nursing(3)
Advanced Nursing Administration and Practice (3)
Advanced Adult Nursing and Practice (3)
Advanced Child Health Nursing and Practice (3)
Advanced Women's Health Nursing and Practice (3)
Advanced Community Health Nursing and Practice (3)
Advanced Community Mental Health Nursing and Practice (3)
Health Related Theory (3)
Advanced Health Statistics (3)
Nursing Policy (3)
Scale Development and Psychometric Evaluation (3)
Methodology in Nursing Education (3)
Nursing Leadership Development (3)
Clinical nursing informatics seminar (3)
Qualitative Research Seminar (3)
Nursing and Technology (3)
Experience-Based Nursing Service Design (3)
Social inequality and health equity (3)

■ Professors

- Oh, Sang-Eun, Ph.D.
  [Professor, Pediatric Nursing, seoh@jnu.ac.kr]
- Jang, Keum-Seong, Ph.D.
  [Professor, Nursing Management, jangks@jnu.ac.kr]
- Choi, Ja-Yun, Ph.D.
  [Professor, Adult Nursing, choijy@jnu.ac.kr]
- Chung, Hyang-In, Ph.D.
  [Professor, Nursing Policy and Research, hchoch@hanmail.net]
- Kim, Jeong-Sun, Ph.D.
  [Professor, Gerontological Nursing, kjs0114@jnu.ac.kr]
- Kweon, Young-Ran, Ph.D.
  [Professor, Mental Health and Psychiatric Nursing, yrk@jnu.ac.kr]
- Yoo, Sung-Hee, Ph.D.
  [Professor, Adult Nursing, shyoo@jnu.ac.kr]
- Chae, Duckhee, Ph.D.
  [Professor, Community Health Nursing, dheechae@jnu.ac.kr]
- Lee, Seon-Ah, Ph.D.
  [Professorr, Women's Health Nursing, salee@jnu.ac.kr]
- An, Min-Jeong, Ph.D.
  [Associate Professor, Adult Nursing, anminjeong@jnu.ac.kr]
- Kim, Youn-Kyoung, Ph.D.
  [Associate Professor, Community Health Nursing, ykim0307@jnu.ac.kr]
- Park, Hyun-young, Ph.D.
  [Associate Professor, Fundamentals of Nursing,

hypark@jnu.ac.kr]
- Yang, Hyun-Ju, Ph.D.
  [Associate Professor, Fundamentals of Nursing, huy130@jnu.ac.kr]
- Moon, Sun-Hee, Ph.D.
  [Associate Professor, Adult Nursing, sunnymon@jnu.ac.kr]
- Cho, In-Young, Ph.D.
  [Associate Professor, Pediatric Nursing, kikin1024@jnu.ac.kr]
- Kim, Bo-young, Ph.D.
  [Associate Professor, Mental Health and Psychiatric, bkimjhu21@jnu.ac.kr]
- Park, Jin-kyung, Ph.D.
  [Assistant Professor, Nursing Management, carpe@jnu.ac.kr]
- Yu, Soo-Young, Ph.D.
  [Assistant Professor, Women's Health Nursing, sooyoungyu@jnu.ac.kr]

■ Professors Emeritus

- Kim, Young-Sook Ph.D.
  [hannaysk@yahoo.co.kr]
- Kim, Mi-Won Ph.D.
  [mwkim@jnu.ac.kr]
- Park, Oh-Jang Ph.D.
  [ojpark@jnu.ac.kr]
- Lee, Chung-Sook Ph.D.
  [julia4779@hanmail.net]
- Cho, Bok-Hee, Ph.D.
  [bhcho@jnu.ac.kr]
- Lee, Young-Sook Ph.D.
  [yslee@jnu.ac.kr]
- Kang, Hae-Young, Ph.D.
  [hykang@jnu.ac.kr]
- Hong, Mi-Soon, Ph.D.
  [mshong@jnu.ac.kr]
- Park, In-Hyae, Ph.D.
  [ihpark23@jnu.ac.kr]
- Choi, Soon-Hee, Ph.D.
  [choish@.jnu.ac.kr]
- Lee, Eun-Sook, Ph.D.
  [eslee4347@jnu.ac.kr]
- So, Hyang-Sook, Ph.D.
  [hsso0075@jnu.ac.kr]
- Kim, Su-Jin, Ph.D.
  [pinehillkim@naver.com]

■ Laboratories

- Center for Supporting Field-Specific Technology
- Center for Evidence-Based Nursing Education & Research
- CARE Center
- Center for Mental Health Promotion
- Center for Multicultural Family Health Promotion

Department of Business Administration

Contact Information
Phone: +82-62-530-1451
Fax: +82-62-530-1449
URL: http://cba.jnu.ac.kr

■ Graduate Studies in Business Administration

The goal of the Business Administration Graduate Studies Program is to train students to be business professionals with both leadership and managerial capabilities. We provide advanced theories and techniques of management applicable to all management environments. Consequently, we not only teach students the general theories and techniques of management but also endeavor to cultivate the skills needed to solve crucial practical problems in business. The topics covered include Human Resource Management and Organizational Behavior, Marketing, Financial Management, Production and Operations Management, and Management Information Systems.

■ Degree Requirements

- Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.
- Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to publish an article in a journal listed in National Research Foundation of Korea as a first author, also have to present a related paper at an Academic conference, pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Advanced Industrial Relations (3)
Advanced Statistics (3)
Advanced Study on Regional Corporate Strategies (3)
Advanced Study on Strategic Management (3)
Advertising Promotion (3)
Asset Pricing Theory (3)
Business Innovation and Change Management (3)
Channel Management (3)
Consumer Behavior (3)
Consumer Behavior Seminar (3)
Customer Relationship Management (3)
Decision Science (3)
Derivatives (3)
E-Business Management (3)
E-Business Project (3)
E-Business Research Methodology (3)
E-Business Strategy (3)
Empirical Research in Corporate Finance (3)
Empirical Research in Financial Institutions (3)
Empirical Research in Investments (3)
Environmental Management : Theory and Practice (3)
Environment · Climatic Change and business Management (3)
Financial Econometrics (3)

Fixed income Securities (3)
Global Operations Management (3)
Human Resources Development (3)
Human Resources Management (3)
Information Policy and Evaluation (3)
Information Technology and Management Innovation (3)
Information Technology Management (3)
Intelligence Information Systems (3)
Intermediate Business Statistics (3)
Internet Marketing (3)
Leadership and Motivation Theory (3)
Management Information System (3)
Management Innovation Case Study (3)
Management of Financial Institutions (3)
Management of Technology (3)
Management Theories on Corporate Social Responsibility (3)
Manufacturing Strategy (3)
Marketing Research (3)
Marketing Seminar (3)
Marketing Strategy and Planning (3)
Marketing Theory (3)
Merchandise planning and brand management (3)
Multimedia Applications Study (3)
Operations Management: Special Topics (3)
Optimization Theory (3)
Organizational Behavior and Theory (3)
Organization Change and Development (3)
Organization Theory (3)
Organizations and Interpersonal Relationships (3)
Pricing Management (3)
Production Innovation Theories and Practices (3)
Production planning and control (3)
Research Methods in Business Administration (3)
Research Methods in Organizational Behavior (3)
Retailing Management (3)
Seminar of Management Information System (3)
Seminar in Organization Theory (3)
Seminar I in Organizational Behavior (3)
Seminar II in Organizational Behavior (3)
Service Marketing (3)
Service Operations Management (3)
Service Science (3)
Simulation and Application (3)
Societal Marketing (3)
Solution Applications and Programming (3)
Special Topics in Corporate Finance (3)
Special Topics in Human Resources? Management (3)
Special Topics in Industrial Relation (3)
Strategic Quality Management (3)
Structured Finance and Securitization (3)
Studies in Investments (3)
Studies in Organizational Culture (3)
Supply Chain Management (3)
System Development Methodology (3)
Technology and Innovation Study (3)
Theoretic Approach to the Theory of Corporate Finance (3)
Theory of Corporate Finance (3)

■ Professors

• Il Sang Ko, Ph.D.
[Professor, MIS, isko@jnu.ac.kr]
• Joon Ko, Ph.D.
[Professor, MIS, kjoon@jnu.ac.kr]
• Kyung-Su Kim, Ph.D.
[Professor, Organizational Behavior, kskim@jnu.ac.kr]
• Min-Jung Kim, Ph.D.
[Professor, Human Resource Management and Organizational Behavior, minjkim@jnu.ac.kr]
• Sang-Hee Kim, Ph.D.
[Professor, Marketing, ksh2851@jnu.ac.kr]
• Eun-Hee Kim, Ph.D
[Professor, Technology Management, eheekim@jnu.ac.kr]
• Jae-Yun Kim, Ph.D
[Professor, Operations Management, jaeyun@jnu.ac.kr]

- Ji-Yoon Kim, Ph.D.
  [Associate Professor, International Business, jykim2016@jnu.ac.kr]
- Hyun-Jae Park, Ph.D.
  [Professor, Strategic Management, daniel@jnu.ac.kr]
- Kwang-Il Bae, Ph.D.
  [Professor, Finance, k.bae@jnu.ac.kr]
- Jae-Do Song, Ph.D.
  [Professor, Marketing, sjaedo@jnu.ac.kr]
- Duk-Sup Shim, Ph.D.
  [Professor, Human Resource Management and Organization Studies, dsshim@jnu.ac.kr]
- Chae-Yeol Yang, Ph.D.
  [Professor, Finance, cyyang@jnu.ac.kr]
- Hyun-Sik Yoon, PhD.
  [Associate Professor, MIS, Dr.Yoon@jnu.ac.kr]
- Kang-Mun Lee, Ph.D.
  [Associate Professor, International Business, km2310@jnu.ac.kr]
- Sang-Jun Lee, Ph.D.
  [Professor, MIS, s-lee@jnu.ac.kr]
- Su-Yol Lee, Ph.D.
  [Professor, Environmental and Operations Management, leesuyol@jnu.ac.kr]
- Su-Jin Lee, PhD,
  [Associate Professor, Human Resorce Management and Industrial Relations, soojinlee@jnu.ac.kr]
- Myung-Sook Jun, Ph.D.
  [Professor, Human Resource Management and Industrial Relations, msjun@jnu.ac.kr]
- Ki-Ju Cheong, Ph.D.
  [Professor, Marketing, cheong3@chonnam.ac.kr]
- Sung-Chang Jung, Ph.D.
  [Professor, Finance, scjung@jnu.ac.kr]
- Geon Cho, Ph.D.
  [Professor, Operations Management, gcho@jnu.ac.kr]
- Sung-Do Cho, Ph.D.
  [Professor, Marketing, matt@chonnam.ac.kr]
- Sung-Ho Choi, Ph.D.
  [Professor, Finance, shchoi@jnu.ac.kr]
- Yong-Duk Choi, Ph.D.
  [Associate Professor, Organizational Behavior and Leadership, ydchoi@jnu.ac.kr]
- Ji-Ho Choi, Ph.D.
  [Professor, Marketing, jihocool@jnu.ac.kr]
- Byoung-Sop Han, Ph.D.
  [Professor, International Business, hanbs@jnu.ac.kr]
- Jang-Hui Han, Ph.D.
  [Professor, Marketing, hanjh@jnu.ac.kr]

Department of Economics

Contact Information
Phone: +82-62-530-1540
Fax: +82-62-530-1559
E-mail: eco@jnu.ac.kr
URL: http://eco.jnu.ac.kr

■ Graduate Studies in Economics

The Major of Economics places great value on practical applications of economic theories and strives to provide market economy-oriented education. The instructional focus is on cultivating the students' problem-solving skills in an effort to better prepare them for the 21st century. In the Economics major track, courses are offered to develop the students' ability to understand and analyze a wide variety of economic phenomena.

■ Degree Requirements

- Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.
- Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Game Theory (3)
Economic Development (3)
Economic History (3)
Economic Philosophy (3)
Mathematics for Economists (3)
History of Economic Thoughts (3)
Econometrics (3)
Advanced Microeconomic (3)
International Finance (3)
Labor Economics (3)
Industrial Organization (3)
Mathematical Economics (3)
Regional Economy Analysis (3)
Macroeconomy Analysis (3)
International Economy Analysis (3)
Microeconomy Analysis (3)
Advanced Macroeconomics (3)
Seminar on Political Economy (3)
Seminar on Industrial Organization (3)
International Trade (3)
Seminar on International Economics (3)
Financial Economics (3)
Seminar on Monetary Theory (3)
Analysis of Industrial Relations (3)
Seminar on Labor Economics (3)
Seminar on Public Economics (3)
Law and Economics (3)
Seminar on History of Economic Thoughts (3)
Political Economy (3)
International Political Economy (3)
Monetary Theory (3)
Public Economics (3)
Economics Seminar (3)
Special Lectures on Economics (3)

Public Economy Analysis (3)
Statistical Method for Economic Analysis (3)
Information, Risk, and Uncertainty (3)
Energy and Resource Economics (3)
Environmental Economics (3)
Microeconomics Seminar (3)
Macroeconomics Seminar (3)
Industrial Economy Analysis (3)
Economics Research (3)
Economics of Taxation (3)
Financial Economy Analysis (3)
Seminar on Resource and Environment (3)
Advanced Econometrics (3)
Seminar on Economic History and Development (3)

■ Professors

- Jae-Woon Koo, Ph.D.
  [Professor, Macroeconomics, jwkoo@jnu.ac.kr]
- See-Won Kim, Ph.D.
  [Professor, Macroeconomics, seekim@jnu.ac.kr]
- Soo-hyon Kim
  [Assistant Professor, Macroeconomics, soohyon.kim@jnu.ac.kr]
- Jae-Ho Kim, Ph.D.
  [Professor, Economic History, jhokim@jnu.ac.kr]
- Hyun-Ho Kim, Ph.D.
  [Professor, Industrial Organization, hyunkim@jnu.ac.kr]
- Kyung-Suk Park, Ph.D.
  [Professor, International Trade, kspark@jnu.ac.kr]
- Jeong-Hwan Bae, Ph.D.
  [Professor, Environmental and Resource Economics, jhbae@jnu.ac.kr]
- Wiroy Shin, Ph.D.
  [Professor, Industrial Organization, wiroyshin@jnu.ac.kr]
- Sung-Joo Yoon, Ph.D.
  [Assistant Professor, Public Economics, sjyoon2022@jnu.ac.kr]
- Sang-Ho Lee, Ph.D.
  [Professor, Industrial Organization, sangho@jnu.ac.kr]
- Chan-Young Lee, Ph.D.
  [Assistant Professor, Labor Economics, chanyounglee@jnu.ac.kr]
- Hyun-Joon Lim, Ph.D.
  [Assistant Professor, International Economics, limhj1@jnu.ac.kr]
- Woo-Young Jeon, Ph.D.
  [Associate Professor, Energy Economics, wyjeon@jnu.ac.kr]
- Yoon-Seok Choi, Ph.D.
  [Associate Professor, International Economics, yoonchoi3@jnu.ac.kr]

Department of Regional Development

Contact Information
Phone: +82-62-530-1560
Fax: +82-62-530-1579
E-mail: a1059@jnu.ac.kr
URL: http://eco.jnu.ac.kr/

Graduate Studies in Regional Development

The Department of Regional Development aims to provide students with knowledge and skills in the field necessary to cope with trends in globalization, localization, and information technology.

Graduate programs in Regional Development aim to help students gain an understanding of economic theories and their implications on urban planning, regional development, and the environment. The programs guide students' understanding of modern
methods of urban planning that will reduce the gap among different cities and regions, producing regional development experts with thorough theoretical and practical knowledge.

The graduate programs equip students with research ability and teaching skills in the field. The subjects taught in the program comprise theory and methodology, which provide the basic tools necessary in solving the problems in the field of Urban and Regional Development.

Degree Requirements

- Master's course: Master's degree candidates must earn a minimum of 24 credits.
- Doctoral course: Ph.D. candidates must earn a minimum of 36 credits.
- Students are required to pass both the qualifying examination and the foreign language examination.

What Do You Study?

Advanced Macroeconomics
Advanced Theory of Economic Development
Advanced Study on Economic Geography
Advanced Study on Planning Laws
Advanced Planning Theory
Planning Statistics
A Study on Spatial Econometrics Analysis
Advanced Public Economics
Advanced Public Investment and Policy
Advanced Transportation Economics
Advanced Study on Transportation Policy
Case Studies on International Development
Advanced National and Regional Planning Theory
Global network and economic geography
Technology innovation and regional development
Seminar On Rural Development Planning
Rural Development Research
Introduction to City and Regional Tourism Development
Advanced City and Regional Tourism Policy
Advanced Urban Development
Advanced Urban Development Policy
Advanced Urban Economics

Special Topics in Urban Economics
A Study on Urban Metrology Economics
Urban Planning Process
Advanced Histroy of Urban Planning
Advanced Study on Urban Planning Theory
Advanced Urban Management
Urban Transportation Planning
Advanced Study on Urban & Regional Regeneration
A Study on Real Estate Development
A Study on Real Estate Econometrics
Advanced Study on Real Estate
Real Estate Appraisal
Project Evaluation Theory
Social Economy
Advanced Social Economy
Industry cluster theories and cases
Industry-University-Research Partnership and Intellectual Property Research
Advanced Housing Economics
Small and Medium Sized City Development
Geographic Information System
Advanced Local Public Finance
Advanced Regional Development Theory
Advanced Regional Development Policy
Econometric analysis for regional development
Advanced Regional Economic Analysis
Seminar in Regional Economic policies
Special Topics in Regional Economics
Advanced Regional Community Development Theory
Regional innovation system and IP management
Advanced Community Business
Advanced Land Economics
Advanced Urban Land Use Planning
Introduction to Statistical Analysis and Research Methodology
Advanced Environmental Planning
SOC and Investment Analysis

■ Professors

- Ju-Mong Na, Ph.D.
  [Professor, Urban and Regional Economics, najumong@jnu.ac.kr]
- Woo-Jin Shin, Ph.D.
  [Professor, Urban Economics & Real Estate, sayurban@jnu.ac.kr]
- Il-Won Seo, Ph.D.
  [Assistant Professor, Urban Development, veny.seo@jnu.ac.kr]

Department of Accounting

Contact Information
Phone: +82-62-530-1470
Fax: +82-62-530-1489
E-mail: a1057@jnu.ac.kr
URL: http://cba.jnu.ac.kr

Graduate Studies in Accounting

The most common aspiration of a graduate in accounting is to pursue a career as a university educator and researcher in the field. Accounting educators teach and conduct research across a wide variety of specializations, including financial reporting, management accounting, auditing, taxation, and accounting information systems.

Degree Requirements

1) At least 24 course units of graduate level credit in Accounting courses are required for the master's degree, and further 60 course units for doctor's degree (including units completed in master course).
2) Students have to pass qualifying examination and the foreign language examination.
3) Students must fulfill presentation, defense, and document requirements in the department thesis committee.
4) A thesis advisor can be any faculty member from the department.

What Do You Study?

Intermediate Business Statistics (3)
Research for the Master's or Doctoral Degree (Ⅰ)
Advanced Business Statistics (3)
Research for the Master's or Doctoral Degree (Ⅰ)
Financial Accounting Seminar (3)
Managerial Accounting Seminar (3)
Market-based Accounting Research Seminar (3)
Income Determination and Asset Valuation Seminar (3)
Information Economics Seminar in Accounting (3)
Behavioral Research Seminar in Accounting (3)
Advanced Financial Accounting (3)
Financial Statements Analysis & Investment Theory (3)
Advanced Management Accounting (3)
Advanced Tax Accounting (3)
Tax Accounting Seminar (3)
Advanced Accounting Information System (3)
Research Methodology in Accounting (3)
Auditing Seminar (3)
Special Topics in Accounting (3)
Study of Advanced Financial Accounting (3)
Study of Advanced Auditing (3)
Study of Advanced Managerial Accounting (3)
Experimental Research in Accounting (3)
Research Methodology in Tax Accounting (3)
Study of Tax Compliance (3)
Study of Tax Planning & Management (3)
Study of Advanced Accounting Information System (3)
Study of Accounting Disclosur Systemse (3)
Accounting Research Methodology (3)
Accounting Trend (3)

Professors

- Seon-Mi Kim, Ph.D.
  [Associate Professor, Accounting, smkim09@jnu.ac.kr]
- Chong-Kil Nah, Ph.D.
  [Professor, Financial Accounting, cknah@jnu.ac.kr]
- Young-Zik, Shin, Ph.D.
  [Assistant Professor, Managerial Accounting, yzshin@jnu.ac.kr]
- Ji-Seon Yu, Ph.D.
  [Assistant Professor, Tax Accounting, jsyoo@jnu.ac.kr]
- Young-Je Im, Ph.D.
  [Assistant Professor, Financial Accounting, yjeim@jnu.ac.kr]
- Sung-Il Jeon, Ph.D.
  [Professor, Financial Accounting, sijeon@jnu.ac.kr]
- Yong-Ki Jung, Ph.D.
  [Professor, Accounting Information Systems, ykchung@jnu.ac.kr]
- Ung-Yong Choi, Ph.D.
  [Professor, Cost and Managerial Accounting, uychoi@jnu.ac.kr]

Interdisciplinary Program of Digital Future Convergence Service	*Contact Information* Tel: +82-62-530-1438 URL: http://future.jnu.ac.kr/

■ General Introduction in Digital Future Convergence Service

The Interdisciplinary Program of Digital Future Convergence Service aims to train professionals who can discover and commercialize future-oriented digital services that adapt to rapid changes in hardware (web, mobile, smartphones, etc.), network (client/server environment, web, cloud, edge computing, etc.), service areas (applications, apps, open source, O2O [online to offline] activation), cultural environment (rapid change to online content, real-time video, and “untact” setting) in the field as well as the advent of the era of the fourth industrial revolution and artificial intelligence. The master's and doctoral degree programs in the Interdisciplinary Program of Digital Future Convergence Service set the following goals.

- Continuous educational research on digital business (O2O, sharing economy, platform business)
- Introduction of social sciences of futurology (study to prepare for futures and create desirable futures)
- Attempt to combine social responsibility, appropriate business models, and use of ICT tools for operating an industrial society
- Dealing with social issues (social economy, sharing economy, regional development policy, free e-service, corporate social responsibility, etc.) and future studies (future sociology, sociology of science and technology, etc.)
- Latest global trends in ICT (AI, IoT, Cloud, Bigdata, Blockchain, Digital Twin, Mobile, VR, Robot, etc.)
- Convergence innovation (convergence system, management innovation, etc.)

■ Degree Requirements

The Master's degree program

For master's degree applicants, requirements include:

① Acquisition of 24 credits: Applicants for a master's degree must take 24 credits, including 9 credits from the Interdisciplinary Program of Digital Future Convergence Service. Students can take 9 credits each semester.

② Candidates must pass the comprehensive exam and foreign language test.

③ There must be a record of presenting at academic conferences or publishing in academic journals (where the candidate is the author while the advisor professor is the co-author) prior to the submission date of the thesis copy.

④ All requirements above must be met and the candidate must successfully defend the thesis before a thesis committee in order to graduate.

The Doctorate program

For doctoral degree applicants, requirements include

① Acquisition of 36 credits: Applicants for a doctoral degree must take these 36 credits, including 15 credits from the Interdisciplinary Program of Digital Future Convergence Service. Students can take 9 credits each semester.

② Candidates must pass the comprehensive exam and foreign language test.

③ Before the submission date of the copy of dissertation, the candidate must a publish research paper as the first author in an academic journal registered by the National Research Foundation of Korea or in an international journal and a related paper must be presented at an academic conference.

④ All requirements above must be met, and the candidate must successfully defend the thesis before a thesis committee in order to graduate.

■ What Do You Study?

Fourth Industrial Revolution and Customer Service Center
Virtual Reality
Management Information Systems
Customer Relationship Management in Customer Service Center
Technology Management in Customer Service Center
Customer Service Center Seminar
Customer Service Center Operations Management
Customer Service Center Organizational Management
Customer Service Center Projects
Advanced Statistical Data Analysis
Sharing Economy
Free E-Services
Sociology of Science and Technology
Special Topics in Global Digital Business
Technical Document Writing
Digital Economy
Digital Convergence Services Technology
Case Studies in Digital Convergence Services
Seminar 1 in Digital Convergence Services
Seminar 2 in Digital Convergence Services
Digital Business and Intellectual Property Rights Management
Research Methodology in Digital Services
Capstone Design in Digital Services
Digital Twins
Robotics Engineering
Machine Learning Theory and Applications
Multimedia Applications Research
Metaverse
Data Analysis in Cultural Management
Future Sociology
Futurology
Venture Entrepreneurship
Blockchain Applications
Introduction to Big Data
Advanced Big Data Analysis
Internet of Things
Cyber Trade
Social Science Methodology
Special Topics in Social Economy
Service Science
Service Science Seminar

Special Lecture in Software Engineering
Systems Development Methodology
Research Internship 1
Research Internship 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Web Programming
Understanding Convergent Systems
Introduction to Artificial Intelligence and Programming
Reliability of Artificial Intelligence
Special Topics in Artificial Intelligence
Internet Security
Special Lectures in E-Commerce Security
Special Topics in Electronic Payment Systems
Information Technology and Management Innovation
Introduction to Information and Communication Technology Convergence
Intelligent Information Systems
Sustainable Development Goals (SDGs) and Management Research
Knowledge Management and Artificial Intelligence
Special Topics in Regional Strategic Industries
Next-Generation Cloud Computing
Project Management
Environmental Management
Introduction to E-Business
E-Business Strategies
IT Service Management

■ Professors

- Ilsang-Ko, Ph.D.
  [Professor,Management Information Systems, isko@jnu.ac.kr]
- Yong-Min Kim, Ph.D.
  [Professor, Information Security, ymkim@jnu.ac.kr]
- BOK-JAE, PARK, Ph.D.
  [Professor, Trade Practices, bjpark73@jnu.ac.kr]
- Jung-sun Park, Ph.D.
  [Professor, Pattern Recognition/ Image Processing, park@jnu.ac.kr]
- Hyun-Chae Park, Ph.D.
  [Professor,Strategic Management(Interantional Business Strategy), daniel@jnu.ac.kr]
- Chi-Ok Oh, Ph.D.
  [Professor, Tourism Studies, chiokoh@jnu.ac.kr]
- Sang-Joon Lee, Ph.D.
  [Professor, Digital Service, AI, BigData, Blockchain, s-lee@jnu.ac.kr]
- Hee-taek Jung, Ph.D.
  [Professor, Distributed Processing Systems, htceong@jnu.ac.kr]

Department of Architecture and Civil Engineering

Contact Information
Tel: +82-62-530-1957, 1650
Fax: +82-62-530-1639
E-mail: bylee@jnu.ac.kr
URL: http://sites.google.com/view/graduate-ace

■ Graduate Studies in Architecture and Civil Engineering

Architecture and Civil Engineering is a comprehensive science and engineering field which is combined with natural science, social science, engineering, and art to create spaces for human living. There are three divisions in the Department of Architecture and Civil Engineering: architectural and urban design, architectural engineering, and civil engineering. The graduate program is committed to training researchers and engineers with advanced knowledge of architectural design, urban design and regional planning, building services engineering, structural engineering, geotechnical engineering, transportation, hydraulic and hydrologic engineering, construction engineering and management, environmental engineering.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum **24 credit hours** and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields. In addition, students are required to earn at least **60 credits** in coursework including the credits already earned for the master's degree as well as pass one foreign language exam. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Advanced Value Engineering
Advanced Steel Structures
Construction Network Scheduling(Ⅰ)
Theory of Architectural Space
Architectural Theory
Theory of Architectural Form

Theory in Architectural Evaluation
Analysis of Water Distribution System
Advanced Transportation Engineering
Advanced Structural Analysis
Theory of MultiDimensional Consolidation
Advanced Urban Planning
Urban Structure Theory
Urban Design Theory
Theory of Plasticity
Principles of Noise Control
Water Resource Engineering
Numerical Analysis
Contunuum Mechanics
Finite Element Method
Advanced Decision Analysis
Dimensional Analysis
Theory of Survey Error
Advanced Geodesy
Advanced Reinforced Concrete Structures
Instruction and Measurement for Civil Engineering
Advanced Soil Mechanics
Fracture Mechanics
Advanced Pavement Engineering
Advanced Theory of Contemporary Architecture
Theory of Deformation for Soils
Fundamentals of Acoustics and Noise Control in Building
Computer Applications for Field Construction Projects
Reliability Engineering
Environmental Impact Assessment
Architectural Aesthetics
Structural Dynamicss
Advanced Street and Highway Design
Advanced Transportation Planning
Advanced Traffic Operation
Advanced Traffic Safety
Theory of Plasticity for Soils
Advanced Water and Wastewater Engineering
Architectural Criticism
Water Quality Modelling and Control
Structural Control
A Higher Rising Building Structure Design
Energy method
Seismic Engineering
Fundamental of Acoustical Design
Advanced Construction Production Engineering
Advanced Construction Risk Management
Advanced Construction Productivity Management
Advanced Construction Management & Engineering
Sustainable Architecture Design
Methodology of Architectural Research
Soil Dynamics
Research Guidance 1
Research Guidance 2
Research Guidance 3
Smart Concrete
Urban disaster prevention
Seismic design theory
Ground improvement theory
Advanced Construction Data Analysis
Construction Information Technology
Advanced Computational Methods in Stuructural Mechanics
Construction Materials
Advanced Drone Surveying
Advanced Road Construction Management
Advanced Road.IT Convergence System
Research Training 1
Research Training 2
Case Studies in Architecture and Urban Design
Architecture & Urban Field study
Theory in Architectural Regeneration
Advanced Architectural Design Studio 1
Advanced Architectural Design Studio 2
Wind-resistant design of structure
Theory in Site Planning
Urban regeneration theory
Urban Regeneration Strategies and Technique
Research Methods in Urban Planning and Design
Theory in Housing planning
Smart City and Building
Studies on Modern Urban Architecture
Disaster Impact Assessment
Advanced geographic information system
Advanced site investigation

Design of Geotechnical Structures
River Environmental Engineering
Advanced Coastal Engineering
Disaster Prevention Engineering in Coastal Fields
Advanced Probability-Based Design
Structure Dynamics
Advanced Building Physics and Building Energy Simulation
Exergy Analyses for the Built Environment
Data-driven Building Energy Technologies
Theory of advanced acoustical data process
Theory of advanced evaluation of acoustics
Design of Renewable Energy Systems
Integrated Architectural Design Studio
Theory of BIM Design
Architectural Presentation
Parametric Architecture
Digital Fabrication
Theory of Elasticity
Energy Geostructures
High Performance Structural Materials
Introduction to Energy Infrastructure Disaster Management
Zero Energy Technologies for the Built Environment
Methodology in History of Korean Architecture
Seminar in History of Korean Architecture
Seminar in History of Asian Architecture
Conservation and Utilization of Historical Architecture
Integrated Architectural Design
Theory in Digital Architecture
Urban Research Methodology
Urban Design Studio 1
Urban Design Studio 2
Advanced Safety management Engineering
Theories of Urban Cultural Landscape
Urban Cultural Landscape Design Workshop
Advanced Hydrodynamics
Advanced Hydraulics
Coastal Hydraulic Models
Advanced Foundation Engineering
Advanced Remote Sensing
Socio-Cultural Theory of Architectural Space

■ Professors

Architecture & Urban Design Division

- Se-Gyu Oh, Ph.D.
  [Professor, Architectural and Housing Design, Sustainable Green Housing Design, Architectural Design and Renovation, Urban Renewal Design, oskar@jnu.ac.kr]
- Hyo-Won Lee, Ph.D.
  [Professor, Architectural Design, Design Theory, Planning and Research of Facility for the Aged, Louis I. Kahn, leehw@jnu.ac.kr]
- Uoo-Sang Yoo, Ph.D.
  [Professor, Architectural Design and Evaluation, usyoo@jnu.ac.kr]
- Seung-Hoon Han, Ph.D.
  [Professor, Architectural Planning & Design, hshoon@jnu.ac.kr]
- Min-Seok Lee, Dr.-Ing
  [Professor, Urban Design Planning, leeminseok@jnu.ac.kr]
- Yunnam Jeong, Ph.D.
  [Assistant Professor, Urban Planning and Design, ynj@jnu.ac.kr]
- Kyungsik Kim, M.Arch
  [Assistant Professor, Architectural Design and Planning, kimsks@jnu.ac.kr]
- Sanghun Joo, Ph.D.
  [Assistant Professor, Architectural history of Korea and Asia, Policy and Theory of Cultural Heritage, joosh924@jnu.ac.kr]

Architectural Engineering Division

- Jin-Gyu Song, Ph.D.
  [Professor, Reinforced Concrete, Performance Evaluation, Loess Reinforced Concrete, jgsong@jnu.ac.kr]
- Jae-Seung Hwang, Ph.D.
  [Professor, Structural Performance Enhancement Against Wind and Seismic Loads, Sustainable Control Device, Structural Control, jshwang@jnu.ac.kr]
- Seong-Seok Go, Ph.D.
  [Professor, Construction Management, Engineering, Safety, Material, ssgo@jnu.ac.kr]
- Bang Yeon Lee, Ph.D.
  [Professor, Advanced Building Materials, bylee@jnu.ac.kr]
- Jong Kwan Ryu, Ph.D.
  [Professor, Architectural Environment & Acoustics, jkryu@jnu.ac.kr]
- Kanghyeok Yang, Ph.D.
  [Associate Professor, Construction Informatics, kyang@jnu.ac.kr]
- Wonjun Choi, Ph.D.
  [Assistant Professor, Building energy systems, wonjun.choi@jnu.ac.kr]

Civil Engineering Division

- Tae-Jun Ha, Ph.D.
  [Professor, Highway and Traffic Engineering, tjha@jnu.ac.kr]
- Jong-In Lee, Ph.D.
  [Professor, Coastal and port engineering, jilee@jnu.ac.kr]
- Jae-min, Kim, Ph.D.
  [Professor, Structural Engineering (Computational Structure/Structural Dynamics), jm4kim@jnu.ac.kr]
- Jungwon Huh, Ph.D.
  [Professor, Structural Reliability Safety Engineering, jwonhuh@jnu.ac.kr]
- Young-Sang Kim, Ph.D.
  [Professor, geotechnical engineering, geoyskim@jnu.ac.kr]
- Dong-Yeob Han, Ph.D.
  [Professor, survey engineering, hozilla@jnu.ac.kr]
- Inkyu Rhee, Ph.D.
  [Professor, structural mechanics, rheei@jnu.ac.kr]
- Changho Lee, Ph.D.
  [Professor, geotechnical engineering, changho@jnu.ac.kr]
- Jejin Park, Ph.D.
  [Associate Professor, Road and Pavement Engineering, jinpark@jnu.ac.kr]
- Yong-uk, Ryu, Ph.D.
  [Assistant Professor, hydrology, yuryu@jnu.ac.kr]

■ Laboratories

- Architecture & Housing Design Lab
- Research of Architectural Design
- Architectural Design and Evaluation Lab
- Sustainable Architecture Design Studio
- Urban Design Lab
- Urban Architecture and Regeneration Lab
- Integrated Design Lab
- Architectural history Lab
- Construction Engineering & Management Lab
- Concrete Structural System Lab
- Structure Vibration & Control Lab
- Advanced Building Materials Lab
- Architectural & Environment Acoustics Lab
- Construction Informatics Lab
- Building Energy Technology Lab
- Traffic Engineering1 Lab.

- Traffic Engineering2 Lab.
- Geotechnical Engineering Lab.
- Structural Engineering1 Lab.
- Structural Engineering2 Lab.
- Coastal Engineering/Spatial Information Engineering Lab.
- Hydraulic Engineering Lab.
- Road Engineering Lab.
- Geo-Innovation Research Laboratory

Department of Artificial Intelligence Convergence

Contact Information
Phone: +82-62-530-3420
E-mail: kimmin1210@jnu.ac.kr
URL: http://gsai.jnu.ac.kr

■ Graduate Studies in Artificial Intelligence Convergence

Artificial Intelligence Convergence deals with various fields, such as artificial intelligence technology, healthcare, computer vision, intelligent robots, emotion recognition, energy security, intelligent software, big data analysis, smart factories, and intelligent networks. Globally, the artificial intelligence convergence industry has been nurtured at the national level as one of the major national industries crucial to the 4th industrial revolution and new technology industry. In line with this, the world's leading universities and global companies are also keen to secure new technologies for artificial intelligence.

Therefore, it is an urgent task to nurture professionals, who will lead the AI convergence industry, through efforts such as development of AI convergence technology knowledge and AI systems that will lead future developments. Accordingly, the Department of Artificial Intelligence Convergence at CNU intends to play a leading role in researching cutting-edge artificial intelligence technology and nurturing future prospects.

■ Degree Requirements

Master's Program

Students in the master's degree program must acquire 24 credits, including required courses in the fields of artificial intelligence, AI projects, and healthcare, energy, and mobility studies. Students must pass a foreign language test and qualification exam before applying for a thesis examination for the master's degree.

Ph.D. Program

Students in the doctoral program must acquire 36 credits, including required courses in the fields of artificial intelligence, AI convergence, advanced convergence, and healthcare, energy, mobility studies. Students must pass a foreign language test and qualification exam and satisfy the minimum research requirement before they apply for a dissertation examination for the doctoral degree.

■ What Do You Study?

3D Multimedia
Abnormal Detection
Advanced Automatic Speech Recognition
Advanced Big Data Analysis
Advanced Computer Vision
Advanced Deep Learning

Advanced Distributed System
Advanced Information Retrieval
Advanced Natural Language Processing
Advanced Project for AI Convergence
Advanced soft robotics
AI Convergence Field Practice
AI for Medical Imaging
Automatic Speech Recognition
Autonomous Driving Artificial Intelligence
Big Data Analysis
Bio-Mechatronics
Computer and Network Security
Computer Vision
Deep Learning
Digital Video Processing
Distributed AI System
Distributed Application System
Distributed Object System
Energy Artificial Intelligence
Healthcare Artificial Intelligence
Information Security
Internet Security and Intrusion Detection
IoT Sensor Data Analysis
Machine learning
Natural Language Processing
Principles of Programming Language
Project for AI Convergence
Reinforement Learning
Research Guidance 1
Research Guidance 2
Research Training 1
Research Training 2
Robot Vision
SmartGrid
SmartGrid Data Analysis
Technical Writing
Topic in Intelligent Systems
Topics in Data Mining
Topics in Artificial Intelligence
Topics in Software Engineering
Topics on Web Mining
Types and Programming Languages
Vital Signal Analysis

■ Professors

- Kyung-baek Kim, Ph.D.
  [Professor, Distributed Network System, kyungbaekkim@jnu.ac.kr]
- Myung-sun, Kim, Ph.D.
  [Associate Professor, Department of Orthopaedics, Shoulder & Elbow, Hand clinics, mskim@jnu.ac.kr]
- Seung-won, Kim, Ph.D.
  [Assistant Professor, AR/VR, Seungwon.Kim@jnu.ac.kr]
- Soo-Hyung Kim, Ph.D.
  [Professor, Artificial Intelligence, shkim@jnu.ac.kr]
- Ja-hae, Kim, Ph.D.
  [Assistant Professor, [Nuclear Neuroscience, jhbt0607@jnu.ac.kr]
- Ilwoo Park, Ph.D.
  [Associate Professor, Artificial Intelligence in Medical Imaging, Magnetic Resonance Imaging, ipark@jnu.ac.kr]
- Hyung-Jeong Yang, Ph.D.
  [Professor, Multimedia Data Mining, hjyang@jnu.ac.kr]
- Seok-bong, Yoo, Ph.D.
  [Associate Professor, Image Processing, Visual Intelligence, sbyoo@jnu.ac.kr]
- Changho, Lee, Ph.D.
  [Associate Professor, Biomedical imaging, ch31037@jnu.ac.kr]
- Hieyong Jeong, Ph.D.
  [Associate Professor, Human-Computer Interaction, Data Analysis, h.jeong@jnu.ac.kr]
- Yeong-jun, Cho, Ph.D.
  [Assistant Professor, Computer vision,

yj.cho@jnu.ac.kr]

- Kwanghoon Choi, Ph.D.
  [Professor, Programing Language & compiler, kwanghoon.choi@jnu.ac.kr]
- Deok-jai Choi, Ph.D.
  [Professor, Advanced network, dchoi@jnu.ac.kr]

■ Laboratories

- Advanced BioMedical Imaging Lab
- Advanced Network Lab
- Augmented & Virtual Reality Lab
- Biomedical Imaging & Engineering Lab
- Computer Vision Lab
- Distributed Network and Systems Lab
- Human-Media Lab
- Pattern Recognition Lab
- Smart Computing Lab
- Software Languages and Systems Lab
- Visual Intelligence Media Lab

Department of Biotechnology and Bioengineering

Contact Information
Phone: +82-62-530-1048
Fax: +82-62-530-1949
E-mail: biohsj@jnu.ac.kr
URL: http://bte.jnu.ac.kr

■ Graduate Studies in Biotechnology and Bioengineering

Biotechnology and Bioengineering is the field of study that applies the engineering principles to biology, which is a basic science, and is believed to be one of the key disciplines leading the 21st century that seeks to contribute to the happiness of mankind by engineering the excellent functions of living organisms. The department of Biotechnology and Bioengineering aims to foster field-oriented engineers with overall problem-solving ability in the field of biotechnology by understanding the basic theories of living organisms and acquiring the ability to design and perform engineering experiments using organisms.

■ Degree Requirements

- Students in the master's degree program are required to earn 24 credits to graduate.
- Students in the doctoral program must acquire 36 credits in major courses to graduate.
- All of students must pass a foreign language exam, a major exam, and a thesis submission for graduation.
- Applicants from other backgrounds may also apply if they have appropriate qualifications and interests.
- In order to submit a graduation thesis, master's students must have at least one poster (or oral presentation) presentation at a domestic or international conference, and doctoral students must have at least two papers published in a KCI academic journal (or more then one paper in SCI journal)

■ What Do You Study?

Advanced Fermentation Technology
Advanced Microbial Biotechnology
Advanced Environmental Biological Engineering
Advanced Bioseparation & Purification
Energy Environmental Engineering
Design and Operation of Bioreactor
Cell Culture Engineering
Special Topics in Enzyme Processes Engineering
Bio Big Data
Advanced Biostatistics
Advanced Topics in Biopharmaceuticals/Biomedicines
Biotechnology and Bioengineering Seminar1
Biotechnology and Bioengineering Seminar2
Biotechnology and Bioengineering Seminar3
Biotechnology and Bioengineering Seminar4
Scientific Writing in Biotechnology and Bioengineering
Advanced Membrane Engineering
Biomass Conversion
Advanced Systems Biology
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3

Biosensing engineering
Molecular diagnostics and instruments
Methods in Protein Engineering
Advanced Molecular Bioology & Biochemistry
Advanced Bioresource engineering
Advanced Microbiological Geochemistry
Electrochemistry
Advanced Programming Language
Advanced Soil Microbiology
Advanced Marine Microbial Ecology
Advanced Environmental Microbiology
Advanced Intelligent Biosystems Engineering
Microbial Genetics
Advanced Electrochemistry
Microbial Electrochemical System
Bioinorganic Chemistry
Trends in Bioenergy Technology
Advanced Bioreaction and Engineering
Biomaterials Chemistry 1
Biomaterials Chemistry 2
Advanced Biopolymers
Advanced Cell biology
Enzyme Chemistry
Environmental Microbiology Seminar
Advanced Industrial Microbiology
Cell Technology
Analysis of Microbial Secondary Metabolites
Biochemical Sensor
Optical Biosensor
Biofilm Engineering
Analysis of Bioaerosol
Science Illustration in Biotechnology
Programming in Biotechnology
Gene editing technology
Biochemical machine learning
Advanced Gene Recombination
Bioanalysis technology and application
Industrial Development in Bioengineering
Synthetic Biology
Application of Omics Technology
Advanced Biopharmaceutical Discovery Process

■ Professors

• Jong-il Choi, Ph.D.
[Biomolecules Engineering, choiji01@jnu.ac.kr]
• Seung Hwan Lee. Ph.D.
[Metabolic Engineering, leesh@jnu.ac.kr]
• Sooim Shin, Ph.D.
[Protein Engineering, sooim.shin@jnu.ac.kr]
• Tae Wan Kim, Ph.D.
[Bioprocess Development & Optimization, chekimtw@jnu.ac.kr]
• Kibaek Lee, Ph.D.
[Environmental Biotechnology, kibaek@jnu.ac.kr]
• Changman Kim, Ph.D.
[Applied Microbiology & Biotechnology, cmkim@jnu.ac.kr]
• Youngung Seok, Ph.D.
[Biosensors & Materials, stonehero@jnu.ac.kr]

■ Laboratories

- Biomolecules Engineering Lab.
- Metabolic Engineering Lab.
- Protein Biochemistry & Engineering Lab.
- Bioprocess Engineering Lab.
- Water & Environmental Biotechnology Lab.
- Applied Microbiology and Biotechnology Lab.
- Diagnosis Sensor & Materials Lab.

Department of Chemical Engineering

Contact Information
Phone: +82-62-530-1820, 1880
Fax: +82-62-530-1819, 1889
E-mail: crlee@jnu.ac.kr, mathchem@jnu.ac.kr
URL: https://ace.jnu.ac.kr

■ Graduate Studies in Chemical Engineering

The Chemical Engineering Graduate Studies Department offers advanced degree programs to prepare its students for research and technical careers in industry, academia, and government. The program strikes a balance between the science of chemical engineering and its implementation, by synthesizing a blend that bases itself upon the fundamentals of the discipline whilst encouraging students to develop the skills to apply these core abilities to solving significant contemporary engineering problems.

■ Degree Requirements

Master's Program

The graduate program aims at the instruction of the highest level of academic theory and developing capabilities to perform original research work. Applicants for the master's program should have achieved a good standard in an undergraduate degree course in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Assessment of M.S. students includes a combination of at least 24 credit hours coursework and a thesis based on the research project. These requirements should be fulfilled between two and three years of enrollment.

Ph.D. Program

Students who pursue a Doctor of Philosophy degree undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation must make a substantial contribution to the scientific or engineering fields. The dissertation is examined by at least five committee members. In addition, students are required to take at least 60 credits in coursework including the master's degree, and must pass one foreign language test. Degrees are conferred to those who fulfill the requirements between two and five years of enrollment.

■ What Do You Study?

4th Industrial Revolution and ICT convergence textiles
Advanced Transport Phenomena
Advanced Polymer Physics
Advanced Course Of Polymer Chemistry
Process Data Analytics
Advanced Process Modeling
Advanced Process Control
Advanced Photo-Electronics
Opto-Electronics
Advanced Photocatalysis

Introduction to Machine Learning
Advanced Course of Instrumental Analysis
Functional Polymers
Functional Polymer Materials
Functional porous materials
Synthesis and processing of nanomaterials
Nano Materials Chemistry
Nanocarbon Engineering
Display Engineering
Advanced Membrane Separation Process and Engineering
Physics-based Impedance Spectroscopy
Selected Topics in Material Patents
Advanced Biophotonics
Thin Film Fabrication Process
Semiconductor Materials and Processing
Advanced Chemical Reaction Engineering
Reactor Modeling
Advanced Separation Process
Seminar on Engineering for Research & Industrial Application
Advanced Bioprocess Engineering
Advanced Bioanalysis
Advanced Biochemical Engineering
Bioinspired Engineering
Biochemical Sensors
Smart Advanced Process Design
Adv. System Engineering
System Engineering
New Energy Technology
Intro to Sustainable Energy
Renewable energy and IP
Advanced Quantum Mechanics
Advanced Energy Engineering
Energy Materials Engineering
Advanced material analysis for IP
Energy Policy Development
Seminar on Research Topics 1
Seminar on Research Topics 2
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Fuel Cell Technology
Advanced Combustion Engineering
Advanced Organic Synthesis
Advanced Organic Chemistry
Release Reduction Technology of Toxics
Industry Field Placement 1
Industry Field Placement 2
Internship
Electrochemical Energy Conversion and Storage: Fundamentals, Materials and Applications
Advanced Electrochemistry
Advanced Battery Materials
Special theory of Quantitative Risk analysis
Advanced Manufacturing of Smart Materials
Advanced Clean Technology
Advanced Catalysis Design Chemistry
Advanced Catalysis
Capston Design
Materials for Solar Cell
Technical Writing 1
Advanced Chemical Engineering Design
Advanced Numerical Analysis in Chemical Engineering
Advanced Chemical Safety Engineering
Advanced Chemical Engineering Thermodynamic
Advanced Chemical Process Optimization
Chemical Engineering Seminar
Special Topics in Chemical Engineering (Ⅰ)
Special Topics in Chemical Engineering (Ⅱ)
Chemicals Control Act
Regulation of Chemicals, Radiation, and Biotechnology
Advanced Chemical Accidents Response
Special Topics in Chemical Facilities Safety
Chemical Safety Seminar 1
Chemical Safety Seminar2
Advanced Artificial Intelligence and Digital Process Design
ICT convergence technology

■ Professors

- Taek-Hyeon Kim, Ph.D.
  [Professor, Design and Synthesis of Drug, Organic Synthesis, thkim@jnu.ac.kr]
- Jong-Ho Kim, Ph.D.
  [Professor, Catalytic Chemistry, jonghkim@jnu.ac.kr]
- Moo-Sung Lee, Ph.D.
  [Professor, Polymer/Hybrid Materials, moosung@jnu.ac.kr]
- Hyung Jin Kim, Ph.D.
  [Professor, Organic Synthesis, hyungkim@jnu.ac.kr]
- Do-Heyoung Kim, Ph.D.
  [Professor, Metal Organic Chemical Vapor, kdhh@jnu.ac.kr]
- Jong-Il Rhee, Ph.D.
  [Professor, Development for Optic Biosensors and Biochips, jirhee@jnu.ac.kr]
- Young-Dae Kim, Ph.D.
  [Professor, Rheology, Conduction Polymer, youngdae@jnu.ac.kr]
- Eun-Mi Han, Ph.D.
  [Professor, Opto-electronic Materials, emhan@jnu.ac.kr]
- Kwang Ha, Ph.D.
  [Professor, Organometallic Chemistry, hakwang@jnu.ac.kr]
- Sung-June Cho, Ph.D.
  [Professor, Production and Storage of Methane and Hydrogen, sjcho@jnu.ac.kr]
- Hyun-Yong Lee, Ph.D.
  [Professor, Multilayer structure transparent electrodes, hyleee@jnu.ac.kr]
- Yun-Sung Lee, Ph.D.
  [Professor, Lithium Secondary Battery, leeys@jnu.ac.kr]
- Jong-Hoon Han, Ph.D.
  [Professor, Nano Carbon Convergence Materials, jhhan@jnu.ac.kr]
- Jun-Seok Ha, Ph.D.
  [Professor, Nano Photonic Devices, jsha@jnu.ac.kr]
- Chang-Kook Hong, Ph.D.
  [Professor, Solar Cells, Energy Engineering, Polymer Materials, hongck@jnu.ac.kr]
- Chang-Hyun Ko, Ph.D.
  [Professor, Synthesis and Catalytic Application of Inorganic Materials, chko@jnu.ac.kr]
- Jeong-Woo Yun, Ph.D.
  [Professor, Fuel Cell, Capacitor, Fuel reforming, jwyun@jnu.ac.kr]
- Sang-Hyun Lee, Ph.D.
  [Professor, Semiconductor & carbon nanomaterials, leeshyun@jnu.ac.kr]
- Yong-Il Park, Ph.D.
  [Associate Professor, Nano Materials, ypark@jnu.ac.kr]
- Young-Si Jun, Ph.D.
  [Associate Professor, Photocatalysis, Polymer semiconductors, ysjun@jnu.ac.kr]
- Byung-Chol Ma, Ph.D.
  [Associate Professor, Process Safety Design, Process Risk Analysis, anjeon@jnu.ac.kr]
- Dae-Sung Song, Ph.D.
  [Associate Professor, Process Design, Process Optimization, Process Safety, dssong@jnu.ac.kr]
- Dong-Hun Kim, Ph.D.
  [Assistant Professor, Functional Porous Materials donghun99@jnu.ac.kr]
- Ji-Eun Lee, Ph.D.
  [Assistant Professor, Nanomaterials, jelee@jnu.ac.kr]
- Bo-Ram Gu, Ph.D.
  [Assistant Professor, Process Systems

Engineering/Computational Fluid Dynamics, boram.gu@jnu.ac.kr]

• Ki-Ho Park, Ph.D.
[Associate Professor, Energy, environment, and chemical process engineering, kiho138@jnu.ac.kr]

• Dae-Hoon Han, Ph.D.
[Assistant Professor, 3D/4D Printing of Smart Materials, dhhan@jnu.ac.kr]

■ Laboratories

- Inorganic Materials Chemistry Lab
- Multiphysics Multiscale Modelling Lab
- Chemical Process Lab. for Advanced Materials
- Functional Porous Materials Lab
- Conductivity high-molecular lab
- Organic Synthesis Lab
- Molecular Engineering Lab
- Process Safety System Lab
- Energy, environment, and chemical process engineering Lab
- Functional Nanomaterials Lab
- Semiconductor Materials & Optoelectronic Devices Lab
- Process Solution Lab
- Electrochemical Energy Materials Lab
- Polymer Hybrid Materials Lab
- Nanoscale Phenomena and Materials Lab
- Energy Conversion and Storage System Lab
- Biochemical Engineering Lab
- Nano Energy Materials lab
- Photonic Materials and Devices Lab
- Separation and Energy Conversion/Storage Process Lab(SEPL)
- Clean Energy Technology Lab
- Nano Materials Lab
- Nano Photonic Devices Lab
- Smart Materials Processing Lab
- Opto-electron Research Lab
- Nanocarbon Convergence Materials Lab
- Polymer Energy Materials Lab

Department of Electrical Engineering

Contact Information
Phone: +82-62-530-1740
Fax: +82-62-530-1749
E-mail: middle74@chonnam.ac.kr
URL: http://elec.jnu.ac.kr/eng/

■ What is Electrical Engineering?

Electrical engineering is based on sciences such as mathematics, physics, and chemistry, and studies how to transform fossil, hydraulic, atomic, wind, solar light or heat, and tidal energy into electric energy. Students also study how to transport the transformed energy efficiently and steadily to distant places. One primary focus of the Department is on transforming these into other types of energy such as light, heat, and power. The Department maintains high standards of research and development of electrical energy to benefit society.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory, towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Students who pursue a Doctor of Philosophy degree undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation must make a substantial contribution to the scientific or engineering fields and will be examined by at least five committee members. In addition, students are required to take at least 60 credits in coursework including the credits already earned for the master's degree and they must pass one foreign language test. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Topics of Special Electric Machinery
Advanced Analysis for Electric Machinery
Optimal Control Theory
Applied Electrostatics
Advanced Electrical Power Engineering Ⅰ
Advanced Electrical Power Engineering Ⅱ
Solar Energy Generation Engineering
Power System Analysis Ⅰ

Power System Analysis Ⅱ
Advanced Power System Operations
Advanced Power System Control
Power System Control
Power System Planning
Theory of Light Sources
Lighting System Design and Applications
C Programing
Digital Processor
Embedded Program
Filter Circuit Design
High Integrated Power Circuit
Advanced Power Electronic Engineering
Optimization Theory
Advanced Servo Control of Electric Machinery
Power Communication Network
Special Topics in Solid-State Lighting
Color Science & Its Applications
Power System Dynamic Simulation
Application of Energy Storage Systems on Power System
Digital Control Theory
Sensor Interfacing
Automatic Measurement System
Mechatronics
Automatic Guided Vehicle System
Electric Vehicle Technology
Automation of Industrial Process
Topics of Management for Electric Machinery
Advanced Applied Power Electronics
Design Projects of Power Electronic Converter System
Lighting Calculations and Computer Modeling
Lighting Design
High Voltage Power Apparatus
Power System Protection
Power IT Engineering
Advanced Electromagnetic Field Theory
Computer-Aided Problem Solving Techniques
Electrodynamics
Power Communication Theory
Power Communication Systems
Digital Processor Applications
Illumination Optics & Its Applications
Power System Modeling
Renewable Energy Systems
Applied Numerical Method of Engineering
Microprocessor Applications
Automatics Devices and Apparatus
Adv. Electric Machinery Design
Power System Operations
Data Visualization and Analysis Techniques
Advanced Power Communications
Advanced Power Communication Systems
Advanced Power Communication Networks
Advanced Optimization
Research Guidance 1
Research Guidance 2
Research Guidance 3
Research Training 1
Research Training 2

■ Professors

- Kyung-Woo Ryu, Ph.D.
  [Professor, Superconductivity Applications, kwryu@jnu.ac.kr]
- Joon-Ho Choi, Ph.D.
  [Professor, Power System and Electrical Apparatus, joono@jnu.ac.kr]
- Sung-Jun Park, Ph.D.
  [Professor, Design of Electronic System Based on Micro Processors, sjpark1@jnu.ac.kr]
- Seon-Ju Ahn, Ph.D.
  [Professor, Smart Grid, sjahn@jnu.ac.kr]
- Yong-Hoon Choi, Ph.D.
  [Associate Professor, Wired/Wireless Innovative Technologies and Hybrid, yh.choi@jnu.ac.kr]
- Sang-Yun Yun, Ph.D.

[Professor, Power System, drk9034@jnu.ac.kr]

• Dong-Hee Kim, Ph.D.
[Associate Professor, Energy Mechatronics, kimdonghee@jnu.ac.kr]

• Young-Woo Lee, Ph.D.
[Assistant Professor, Automatic Control, stork@jnu.ac.kr]

■ Laboratories

- Control & Instrumentation Lab
- Electric Machine Design Lab
- Superconductivity Applications Lab
- Power System & Electrical Apparatus Lab
- Design of Electronic System based on Micro Processor Lab
- LabWired/Wireless Innovative Technologies and Hybrid Lab (WITH Lab)

Department of Electronics and Computer Engineering

Computer Science, Computer Engineering and Electronics Engineering

Major of Computer Science Contact Information

Contact Information
Phone: +82-62-530-3420
Fax: +82-62-530-3439
URL: http://ece.jnu.ac.kr

■ Graduate Studies in Computer Science

A focal point for graduate-level research and education, strong research groups exist in areas of software engineering, database, computer graphics, multimedia communication, theory of computation, mobile computing, Internet application technology, image information processing, information retrieval, and smart computing. Basic work in computer science is the main research goal of these groups, but there is also a strong emphasis on interdisciplinary research and on applications that stimulate basic research.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in a computer science discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields.

In addition, students are required to earn at least 60 credits in coursework including the credits already earned for the master's degree.

■ What Do You Study?

3D Multimedia
Advanced Computer Graphics
Advanced Computer Vision
Advanced Database System
Advanced Multimedia Systems
Advanced Object-oriented Systems
Client Server System
Computer and Multimedia Society
Computer and Network Security
Cryptography
Database Design
Design and Analysis of Algorithms
Distributed Application System
Distributed Database
Distributed Object System
Distributed Systems Design
Graph Theory
High-speed Networks
Human Computer Interaction
Image Analysis
Image Information Processing
Image Synthesis Theory
Information Extraction and Integration
Information Protection Systems
Information Retrieval
Integrated Networks Operations and Management
Internet Protocols
Internet Security
Introduction to Computer Vision
Introduction To Data Mining
Machine Learning
Mathematics for Computer Graphics
Mathematics for computer scientist
Medical Imaging and Applications
Methodologies for Development of Program
Mobile Interface
Mobile IP
Multimedia Data Mining
Multimedia Information Storage and Retrieval System
Network Programming
Parallel Processing
Project Management
Real-time System
Security Protocol
Sensor Networks
Software Engineering Environment
Software Process
Software Reuse
Statistical Language Processing
TCP/IP
Technical Writing
Theory of Computation
Topics in Artificial Intelligence
Topics in Computer Networks
Topics in Context Inferencing
Topics in Data Communication
Topics in Data Mining
Topics in Deep Learning
Topics in Distributed Systems
Topics in Image Processing
Topics in Intelligent Systems
Topics in Internet
Topics in Mobile Computing
Topics in Natural Language Processing
Topics in Pattern Recognition
Topics in Software Engineering
Topics in Theoretical Computer Science
Topics on Web Mining
Transaction Processing Systems
Ubiquitous Computing
Virtual Reality
Visual Information Processing
Web Engineering

■ Professors

- Hyeong-Seok Lim, Ph.D.
  [Professor, Graph Theory, hslim@jnu.ac.kr]
- Deokjai Choi, Ph.D.
  [Professor, Ubiquitous Computing, dchoi@jnu.ac.kr]
- Soo-Hyung Kim, Ph.D.
  [Professor, Artificial Intelligence, shkim@jnu.ac.kr]
- Hyuk-Ro Park, Ph.D.
  [Professor, Information Retrieval, hyukro@jnu.ac.kr]
- Hyung-Jeong Yang, Ph.D.
  [Professor, Multimedia Data Mining, hjyang@jnu.ac.kr]
- Kyungbaek Kim, Ph.D.
  [Professor, Distributed Network System, kyungbaekkim@jnu.ac.kr]
- Kwanghoon Choi, Ph.D.
  [Professor, Programing Language & compiler, kwanghoon.choi@jnu.ac.kr]
- HeiYong Jeong, Ph.D.
  [Associate Professor, Intelligent robot control & Signal processing, h.jeong@jnu.ac.kr]

■ Laboratories

Database Lab

Research is carried out on transaction management, data mining, mobile transaction management, and XML. In addition, research is conducted on X3D in the 3D field. The main research topics of Distributed Networks and Systems Laboratory are bigdata processing platform and algorithms, social networking systems, software defined network, content distribution networks, and grid/cloud systems.

Computer Graphics Lab

Research is conducted on soft rendering and efficient velocity of radiosity rendering.

Internet@Information Security Lab

Research is carried out on information security including secure operating systems, intrusion detection, security in ubiquitous computing, privacy protection, cyber forensics and the recent security issues such as botnet detection.

Multimedia and Image Processing Lab

Research is conducted on image processing and conmputer vision. Recent research has been focused on document image processing, face tracking, object tracking applications. Especially deep learning approaches with convolutional neural networks are explored.

Theory of Computation Lab

The Theory of Computation Lab is involved in the study of graph theory applied to the parallel or distributed process, network algorithm, information security, and bioinformatics.

Mobile Computing Lab

The Mobile Lab conducts research on a mobile agent which improves performance of the distributed Object System.

Advanced Network Lab

Research is carried out on ubiquitous computing, particularly the ubiquitous computing environment consisting of sensor layers, middleware layers, and application layers, which sense information, collect and analyze information, and apply information, respectively.

Pattern Recognition Lab

Research is carried out on artificial intelligence techniques related to image processing and pattern recognition to implement human thinking and learning mechanisms. Research is also conducted on human emotion recognition, gesture recognition, medical image analysis, and so on.

Information Retrieval Lab

Research is carried out on information retrieval and natural language processing development which utilizes human language processing and artificial intelligence technology. Major research includes all major intelligent software and natural language processing technologies such as information retrieval, information extraction, text and multimedia classification, text summarization, speech recogni- tion, text-to-speech, natural language dialog, intelligent agents, and bio-informatics.

Smart Computing Lab

Research is conducted on multimedia data mining, e-learning, collaborative product development, and bio-image analysis. The main direction of research is to support intelligent computing in many applications such as multimedia information retrieval, e-health, and e-product design by employing data mining and machine learning techniques.

Smart Mobile & Media Computing Lab

The Smart Mobile & Media Computing Lab, performs research in the field of next generation computing, broadcasting & telecommunication convergence media, human-oriented IT convert- gence services.

Software Language & System Lab

The main research themes of Software Languages and Systems Laboratory are programming languages, compilers, and software engineering. The laboratory has studied on the design and implementation of programming languages, program analysis, and software testing for efficient development of defect free software in the areas of mobile computing and Internet-of-Things computing.

Distributed Networks and Systems Lab

The main research topics of Distributed Networks and Systems Laboratory include Software Defined Network/Infrastructure, Bigdata Platforms (distributed data collecting/processing architecture), GRID/Cloud

network/systems, Social networking systems, AI applied Cyber Physical Systems, BlockChains, and other issues in the field of Distributed Systems.

Care Science and Technology (CST) Lab

The interest of CST Lab is a science and technology to enhance a quality of life. It helps our past research understand CST Lab; screening technology of sleep disorder and sudden infant death syndrome, noninvasive measurement technology of respiration rate/depth and emotion, remote measurement and analysis of human posture, human and robot interaction based on machine learning and deep learning, musculoskeletal simulation, capillaries and so on.

Major of Computer Engineering

Contact Information
Phone: +82-62-530-1751
Fax: +82-62-530-3439
URL: http://ce.jnu.ac.kr

■ Graduate Studies in Computer Engineering

As the role of computers in our lives continues to expand dramatically, it has become even harder to imagine engineering, natural science or society in general without such devices. In the emerging future information society, computer engineering will become one of the most important fields of expertise. Computer engineering is a branch of engineering that studies various problems occurring in information acquisition, processing, storage, and transmission. Computer engineering is classified into two major areas: software and hardware. The software branch includes artificial intelligence, multimedia network programming, database and convergence. The hardware branch includes computer architecture, SoC design, embedded systems, computer networks and communication.

■ Degree Requirements

Master's Program

The graduate program aims at the instruction of the highest level of academic theory and the development of capabilities to perform original research work. Applicants for the Master's Program should have achieved a good grade in an undergraduate degree course in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Assessment of M.S. students includes a combination of at least 24 credit hours of course work and a thesis based on the research project. These requirements should be fulfilled between two and three years of enrollment.

Ph.D. Program

Students who pursue Doctor of Engineering degrees undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation must make a substantial contribution to the scientific or engineering fields and it will be examined by at least five committee members. In addition, students are required to take at least 54 credits in coursework including the credits already earned for the master's degree, and they must pass one foreign language test. Degrees are conferred to those who fulfill the requirements between two and five years of enrollment.

■ What Do You Study?

Three Dimensional Vision
Object-Oriented System
Advanced Machine Learning
Advanced Network Security
Advanced Mobile Computing Systems
Modern coding theory
Advanced Artificial Intelligence
Machine Vision
Advanced Network Programming
Advanced Network Protocols
Studies in DBMS
Digital Systems Design
Digital Signal Processor Architecture
Linear Algebra for Deep Learning
Microcontroller Architecture and Low Power Design
Advanced Microprocessors
Machine Learning with Programming
Topics in multimedia Systems
Multimedia Applications
Simulation of Deformable Objects
Advanced coding applications
Coding Theory
Distributed Processing
Advanced Big Data Analysis
Bioinformatics
Performance Evaluation
Advanced Performance Evaluation
Smart Sensors and Application
Advanced Smart NUI
Special Topics In System Semiconductor Test
Special Topics in Neural Networks
Real Time Internet Protocol
Deep Neural Networks and Deep Learning
Advanced Algorithm Design
Special Topics on Cryptography
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Visual Information Processing and Recognition
Application VLSI Design
Principle of Medical Imaging
Medical Image Processing
Special Topic on Mobile Internet
Mobile Communication Engineering
Artificial Intelligence Theory
Internet Engineering
Natural Language Processing
Low Power Design Methodology
Advanced Information Retrieval
Information and Communication Security
Knowledge and Information System
Next Generation Cloud Computing
Next Generation Protocol
Advanced Next Generation Mobile NUI
Special Topics in the computer Engineering
Advanced Computer Architecture Design
Advanced Computer Graphics
Computer Vision
Advanced Computer Image Processing
Computer-Aided Ic Design
Client Server System
Types and Programming Languages
Design For Testability Methodology
Advanced Communication Engineering
Pattern Recognition
Advanced Pattern Recognition
Advanced Programming
Project Management
Introduction to Haptic
Human Interface System

■ Professors

• Young-Chul Kim Ph.D.
[Professor, System on Chip Design, yckim@jnu.ac.kr]
• Ji-Seung Nam Ph.D.
[Professor, Computer Network, jsnam@jnu.ac.kr]
• Chil-Woo Lee Ph.D.
[Professor, Computer Vision/Intelligent Human Interface, leecw@jnu.ac.kr]
• Yonggwan Won Ph.D.
[Professor, Computational(Artificial) Intelligence, Biomedical Engineering, Healthcare System, ykwon@jnu.ac.kr]
• Jaehyung Park Ph.D.
[Professor, State-of-the-Art of Network Technology and Security, hyeoung@jnu.ac.kr]
• Jin-Sul Kim, Ph.D.
[Professor, Multimedia, QoS/QoE, Edge Computing, Intelligence Platform, Metaverse, AI, Digital Content, IT Convergence Technologies, jsworld@jnu.ac.kr]
• Hosung Park, Ph.D.
[Associate Professor, Coding theory, Communications systems, Information theory, hpark1@jnu.ac.kr]
• Sunyong Yoo, Ph.D.
[Assistant Professor, Bio and medical informatics, Artificial intelligence, Bigdata analysis, syyoo@jnu.ac.kr]
• Suhyung Park, Ph.D.
[Assistant Professor, Medical Signal and Image Processing, suhyung@jnu.ac.kr]
• Young-woo Lee, Ph.D.
[Assistant Professor, VLSI/SoC design, ylee@jnu.ac.kr]
• Myeongjin Kim, Ph.D.
[Assistant Professor, VR&AR, Haptic, Artificial intelligence, Computer Graphics, Computer vision, myeongjin@jnu.ac.kr]

■ Laboratories

- IT SoC Lab.
Young-Chul Kim Ph.D.
http://soc.jnu.ac.kr
- Multimedia Data Communication Lab.
Ji-Seung Nam Ph.D.
- Intelligent Image Media/Interface Lab.
Chil-Woo Lee Ph.D.
http://image.jnu.ac.kr
- Intelligent Computing & Bio-Medical Engineering Lab.
Yonggwan Won Ph.D.
- Network Technology & Security Lab.
Jaehyung Park Ph.D.
- Hyper Intelligent Media Network Platform Lab.
Jin-Sul Kim, Ph.D.
https://hi-iot.github.io
- Coding & Intelligent Communications Lab.
Hosung Park, Ph.D.
http://cctl.jnu.ac.kr
- Bio and Medical Informatics Lab.
Sunyong Yoo, Ph.D.
http://bmil.jnu.ac.kr
- Intelligent Medical Imaging and Signal Processing Lab.
Suhyung Park, Ph.D.
https://sites.google.com/view/sparks-lab/home
- System IC Design Technology Lab.
Young-woo Lee, Ph.D.
http://soc.jnu.ac.kr
- Visuo-haptic Mixed Reality Lab.
Myeongjin Kim, Ph.D.
https://sites.google.com/view/vhmrlab/vhmr-lab

Major of Electronics Engineering

Contact Information
Phone: +82-62-530-1800
Fax: +82-62-530-3439
URL: http://ee.jnu.ac.kr

■ Graduate Studies in Electronics Engineering

Electronic engineering is making rapid progress in a variety of research areas ranging from electronic materials and electron devices to the design of ultra-large-scale computers, information processing systems, and software. Education in the Department of Electronic Engineering is aimed at the development of versatile research scientists and engineers with a wide field of vision based on mathematics and physics.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and the development of capabilities to perform original research work. Applicants for the Master's Program should have achieved a good standard in an undergraduate degree course in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Assessment of Electronics Engineering students includes a combination of at least 24 credit hours of course work, and a thesis based on the research project. These requirements should be fulfilled between two and three years of enrollment

Ph.D. Program

Students who pursue Doctor of Engineering degrees undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation must make a substantial contribution to the scientific or engineering fields and will be examined by at least five committee members. In addition, the students are required to take at least 54 credits in coursework including the credits already earned for the master's degree. Degrees are conferred to those who fulfill the requirements between two and five years of enrollment.

■ What Do You Study?

Reinforement Learning
Robust Control
Advanced Display Engineering
Advanced Digital video compression
Advanced MODEM Theory
Advanced semiconductor design methodology
Advanced Analogue Circuit Design
Advanced Antenna Design
Advanced image communication systems
Advanced mobile communication Engineering

Advanced Control Engineering
Advanced integrated circuit fabrication methodology
Advanced Integrated Circuit Design
Broadband Convergence Network
Optical Wireless Communications
Optical Internet
Optical Communication System
Optical Communication SoC Design
Local-area Wireless Communications
Machine Learning Control
Special Topics on Machine Learning
Nano-scaled semiconductor applied sensor engineering
Nanoelectronics
Network Protocols
Multi-antenna Communication Systems
Multi-Dimensional Signal Processing
Digital Broadcasting Engineering
Advanced Digital System
Digital Signal Processing
Advanced Digital Signal Processing
Advanced Visual System
Digital Image compression
Digital Image Processing
Digital Control Applications
Advanced Digital Communication
Digital Filter Theory
Deep Learning
Robotics
Multimodal Signal Processing
Multimedia Signal Processing
Wireless Transceiver Systems
Semiconductor Device Process Engineering
Semiconductor Device Physics and Technology
Coding Theory
Random Variables
Linear System Theory
Smart Sensor Engineering
Spectral Estimation Theory
Signal Detection Theory
Signal and System Mathematics
Advanced Signal and System Mathematics
Estimation Theory
Analog Electronic Circuits
Antenna Engineering
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Image Communication Systems
Image Processing and Analysis
Visual Processing System
Satellite Communication System
Organic Electronics
Digital Processing of Speech Signal
Advanced Speech Signal Processing
Automatic Control
Adaptive Signal Processing
Power Semiconductor Engineering
Power Electronics
Programming for Electrical Engineering
Wave Propagation Theory
Advanced Electronic Circuits
Information Theory
Control Application Engineering
Intelligent Robot
Intelligent Control Engineering
Integrated-Circuit System
Next generation memory semiconductor design
Next Generation Convergence Wireless Communication Engineering
Next Generation Convergence Mobile Communication Engineering
Next Generation Convergence Information and Communication Engineering
Next Generation Intelligent?Wireless Communication Engineering
Next Generation Intelligent Convergence Wireless Communication Engineering
Next Generation Intelligent Convergence Information and Communication Engineering
Next Generation Intelligent Mobile Communication

Engineering
Next Generation Intelligent?Information and Communication Engineering
Microwave Engineering
Microwave Circuit Design
Statistical Signal Processing and Modeling
Introduction to Communication System Engineering
Introduction to Pattern Recognition
Compound Semiconductor Devices
Probability and signal processing
ICT Convergence Technology based Start-ups
RF Circuit Design

■ Professors

- Jin-Young Kim, Ph.D.
  [Professor, Signal Processing, beyondi@jnu.ac.kr]
- Dae Jin Kim, Ph.D.
  [Professor, Digital Communication, djinkim@jnu.ac.kr]
- Sung-Hoon Hong, Ph.D.
  [Professor, Image Processing, hsh@jnu.ac.kr]
- Sung-June Baek, Ph.D.
  [Professor, Digital Signal Processing, tozero@jnu.ac.kr]
- Dong-Kook, Kim Ph.D.
  [Professor, Audio Signal Processing & Pattern Recognition, dkim@jnu.ac.kr]
- Tae-Jin Jung, Ph.D.
  [Professor, Wireless Communication, tjjung@jnu.ac.kr]
- Su-il Choi, Ph.D.
  [Professor, Optical Communication Systems, sichoi@jnu.ac.kr]
- Intae Hwang, Ph.D.
  [Professor, Next-generation AI convergence information/wireless/mobile/vehicle communication, hit@jnu.ac.kr]
- Taeksoo Ji, Ph.D.
  [Professor, Semiconductor & Electronic device, tji@jnu.ac.kr]
- Myoung-Jin Lee, Ph.D.
  [Professor, Intelligent semiconductor device & circuit design, mjlee@jnu.ac.kr]
- Hyun-Duk Choi, Ph.D.
  [Assistant Professor, Next Generation Intelligent Control, ducky.choi@jnu.ac.kr]
- Jinseok Park, Ph.D.
  [Assistant Professor, RF/Analog Semiconductor Circuit Design, jinseok131@jnu.ac.kr]

■ Laboratories

- Intelligent Electronics Lab.
  Jin-Young Kim, Ph.D.
- Digital Communication Lab.
  Dae Jin Kim, Ph.D.
- Visual Information Processing System Lab.
  Sung-Hoon Hong, Ph.D.
  https://jnuvipslab.wixsite.com/vips
- Digital Signal Processing Lab.
  Sung-June Baek, Ph.D.
- AI Signal Processing Lab.
  Dong-Kook Kim, Ph.D.
- Broadband Wireless Communication Lab.
  Tae-Jin Jung, Ph.D.
- Optical Communication Lab.
  Su-il Choi, Ph.D.
- Information and Telecommunication Research Lab.
  Intae Hwang, Ph.D.
  http://itrl.jnu.ac.kr
- Semiconductor Device Research Lab.

Taeksoo Ji, Ph.D.
http://sdrg.jnu.ac.kr

- Intelligent Semiconductor and Circuit Lab.
Myoung-Jin Lee, Ph.D.
https://blog.naver.com/idclab

- Next Generation Intelligent Control Lab.
Hyun-Duk Choi, Ph.D.
https://chlgusejr87.wixsite.com/aics

- High Speed Integrated Circuit & System Lab.
Jinseok Park, Ph.D.
https://jinseok131.wixsite.com/jnu-hsic

Department of Energy and Resources Engineering

Contact Information
Phone: +82-62-530-1720
Fax: +82-62-530-1729
E-mail: energy@jnu.ac.kr
URL: http://resources.jnu.ac.kr

■ Graduate Studies in Energy & Resources Engineering

These days, natural resources are essential for developing domestic economies. Each country is trying to secure natural resource stability. Currently, the Korean government is making efforts to develop the technology of resource extraction and to encourage resource engineers, as many other developed countries have, because the matter of resources is based not only on geopolitical situations. In order to meet the demands of these times, the Department of Energy & Resource Engineering deals with Applied Geology & Applied Geochemistry, Resources Geology Engineering, Geophysical Prospecting, Resource Development Engineering, Petroleum Engineering, Mineral Processing, Resources Development Safety & Environment, Drilling Engineering, and Resource Economics.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project.

Ph.D. Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields.

In addition, students are required to earn a minimum of 36 credits. Students should pass a foreign language test and a qualifying examination to present their thesis.

■ What Do You Study?

Advanced AI for CCUS
Advanced applied mineralogy
Advanced applied petrology
Advanced Carbon Geochemistry

Advanced Chemical Treatment
Advanced Electrical and Electromagnetic Prospecting
Borehole geophysics
Clay Mineralogy
CO2 Utilization and Processing
Deep learning unsupervised learning
Engineering of mineral processing in north korean
Enhanced Oil Recovery
Advanced Engineering for CO2 Geological Storage
Advanced Environmental Geochemistry
Advanced Flotation Treatment
Advanced Geochemistry
Advanced Geochemistry Exploration
Advanced Geology for Carbon
Advanced Gravity and Magnetic Prospecting
Advanced Groundwater Geochemistry
Advanced Microbiological Geochemistry
Advanced Ore Deposits
Advanced Petroleum Drilling Engineering
Advanced Petroleum Production Engineering
Advanced Physical Separation
Advanced recovery of valuable minerals
Advanced Reservoir Engineering
Advanced Resources Recycling
Advanced Rock Blasting
Advanced Rock Mechanics for Underground Strorage
Advanced Seismic Prospecting
Advanced Smart Excavation Engineering
Advanced Smart Mining
Advanced Unconventional Oil and Gas Engineering
Advanced Well Test Analysis
Applied Geostatistics
Experiments and Analysis
Geomicrobiological Engineering Seminar
Geophysical signal processing
GPR Prospecting
Hydrocarbon Phase Behavior
Information of Mineral Resources in North Korea
Instrumental Chemical Analysis
Interfacial Phenomena
Inversion theory
Materials Analysis Technology
Metallic Mineral Processing
Non-Metallic Mineral Processing
Potential Theory
Reserve Estimation and Energy Economics
Reservoir Simulation
Rock Slope Engineering
Rock Structure Design
Separation Process Design
Special Issues on Smart Miningt
Special topics in environmental geochemistry
Special topics in geomicrobiology
Special Topics in Geotechincal Engineering
Specialized solutions for applied geology
Statistics of Rock mass

■ Professors

- Kim Myungjun, Ph.D.
  [Professor, Hydro-metallurgy and Recycling, junkim@jnu.ac.kr]
- Lee Jong-Un, Ph.D.
  [Professor, Microbial Geochemistry, jongun@jnu.ac.kr]
- Lee Jeonghwan, Ph.D.
  [Professor, Petroleum & Natural Gas, jhwan@jnu.ac.kr]
- Kil Youngwoo, Ph.D.
  [Associate Professor, Applied Geology & Geochemistry, ykil@jnu.ac.kr]
- Yoon Daeung, Ph.D.
  [Assistant Professor, Geophysical Prospecting, duyoon@jnu.ac.kr]

■ Laboratories

- Applied Geology & Geochemistry Lab
- Rock Mechanics & Blasting Engineering Lab
- Geophysical Prospecting Lab
- Mineral Processing & Recycling Lab
- Microbial Geochemistry Lab
- Petroleum & Natural Gas Engineering Lab

Department of Environment and Energy Engineering

Contact Information
Phone: +82-62-530-1860
Fax: +82-62-530-1859
E-mail: sunnyoov@jnu.ac.kr
URL: http://eee.jnu.ac.kr

■ Graduate Studies in Department of Environment and Energy Engineering

Environmental researchers deal with interactions between human beings and their environment, to protect each from the harmful effects of the other. The broad scope of this course provides graduate students with unique opportunities to specialize in areas best suited to their background and research interests. The objectives of the graduate program in Environmental Engineering are to mold students into highly competent environmental engineers and scientists, and to research pollution abatement technologies. The Environmental and Energy Engineering Program covers the areas of water supply and water resources, wastewater treatment, environmental systems modeling, air pollution control engineering, air quality management, solid and hazardous waste management, environmental biotechnology and microbiology, fuel cell & battery, and novel renewable energy systems such as microbial fuel cells (MFC).

■ Degree Requirements

The Department offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees in Environmental and Energy Engineering. The Master's Program emphasizes the enhancement of professional knowledge and skills, including research techniques. The doctorate is a research degree emphasizing more extensive and original approaches to problem solving. Students may work directly toward the doctorate, but must earn a master's degree first.

Master's Program

The graduate program aims at instruction of the highest level of academic theory, towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an Environmental and Energy engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Students must pass a foreign language and a qualifying examination. Master's degree candidates are required to earn a minimum of 24 credits and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields.

In addition, students are required to earn a minimum of 36 credits. Students should pass a foreign language test and a qualifying examination to present their thesis. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Advanced Environment and Safety Engineering
Advanced Air Pollution Control
Advanced Chemical Substance Safety
Advanced Construction Noise & Vibration Engineering
Advanced Control of Underground Water Pollution
Advanced Coping Engineering with Air Pollution & Climate Change
Advanced Eco-Toxicology
Advanced Environmental Aerosol Engineering
Advanced Environmental Biological Engineering
Advanced Environmental Chemistry
Advanced Environmental Ecology
Advanced Environmental Impact Assessment
Advanced Environmental Microbiology
Advanced Environmental Toxicology
Advanced Hazardous Gases Treatment
Advanced Micrometeorology
Advanced non-point pollutant treatment
Advanced Organic Waste Recycling Engineering
Advanced Soil Chemistry
Advanced Wastewater Treatment Engineering
Advanced Water Environmental Microbiology
Advanced Water Quality Management
Advanced Water supply and Sewerage Planning
Advanced Water Treatment Engineering
Air quality management seminar
Atmospheric Chemistry of Air Pollution
Bioenergy Seminar
Biological Engineering Seminar
Bioremediation Engineering
Clean Energy Technology
Design and Operation of Bioreactor
Eco-Energy Storage Systems
Environmental GIS
Environmental Microbiology Seminar
Environmental Polymer Design
Environmental Risk Assessment
Experiment for Eco-Toxicity Assessment
Fuel Cells
Industrial Waste-water Treatment Engineering
Introduction to Korea REACH and ACC
Microbial Electrochemical Systems
Patent Mapping
Remediation Engineering of Polluted Soil
Research Guidance 1
Research Guidance 2
Research Guidance 3
Secondary Battery
Seminal for Air Pollution and Climate Change
Seminar for Air Pollutant Protection Design
Seminar for water environment technologies
Seminars in Chemical Risk
Soil Remediation Seminar
Trends in Bioenergy Technology
Trends in Modern Renewable Energy Technology
Waste Management Seminar

■ Professors

• Yong-Woon Lee, Ph.D.
[Professor, Water Quality Management System, ywlee@jnu.ac.kr]
• Sung-Yong Cho, Ph.D.
[Professor, Eco-Energy and Air Pollution Engineering, syc@jnu.ac.kr]
• Seong-Jun Kim, Ph.D.
[Professor, Environmental Biotechnology, seongjun@jnu.ac.kr]
• Jeong-Hun Park, Ph.D.

[Professor, Treatment of Contaminated Soils and Wastes, parkjeo1@jnu.ac.kr]

• Ho-Young Jung, Ph.D.

[Associate Professor, Environmental Energy Materials, jungho@jnu.ac.kr]

·Sok-Hee Jung, Ph.D.

[Associate Professor, Microbial Fuel Cells, Bioenergy, Environmental Biotechnology, sokheejung@jnu.ac.kr]

• Yong-Gyun Park, Ph.D.

[Assistant Professor, Smart Water Grid and Water Digitalization, ygpark7@jnu.ac.kr]

■ Laboratories

- Water Quality Management System Lab
- Air Pollution Control and New Energy Lab
- Environmental Biotechnology Lab
- Hazardous Waste and Soil Lab
- Environmental Energy Materials Lab
- Environmental Fusion Energy Technology Lab
- Smart Water Lab
- Sustainable Energy & Environment Technology Lab

ICT Convergence System Engineering

Contact Information
Phone: +82-62-530-1751, 1800
Fax: +82-62-530-3439
E-mail: A2024@jnu.ac.kr
URL: http://ee.jnu.ac.kr, http://ce.jnu.ac.kr

■ What is ICT Convergence System Engineering?

ICT convergence system engineering, which encompasses fields related to semiconductors, information and communication, control engineering, and computer engineering, and which represents cutting-edge high-tech industries, is developing at a faster rate than other academic fields. Therefore, the department aims to provide various programs to acquire practical skills and theories suitable for rapidly developing industries and to cultivate creative and liberal engineering thinking skills.

It also provides an education that prioritizes the autonomy of students, which is appropriate for the abilities and aptitudes of students and cultivates prospective scholars equipped with both basic and advanced ICT convergence knowledge. ICT convergence system engineering, which combines new, future-oriented technologies into various applicable areas such as smart cities, smart factories, and smart energy, and provides specialized knowledge to solve problems in ICT convergence systems, is expected to motivate students in various interesting ways. This program provides educational programs to nurture professional manpower for various fields, such as smart cities and factories, and by systematically educating basic knowledge and theories of electronic and computer engineering based on intelligent ICT convergence to cultivate scientific thinking ability and creativity.

Also, by designing and conducting experiments through the fusion of cutting-edge engineering methods, the program intends to cultivate high-level technical manpower with the ability to systematically solve problems in this emerging field.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory, towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Students who pursue a Doctor of Philosophy degree undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation must make a substantial contribution to the scientific or engineering fields and will be examined by at least five committee members. In addition, students are required to take at least 54 credits in coursework including the credits already earned for the master's degree and they must pass one foreign language test. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Channel Coding for 5G/6G
Advanced Machine Learning
Advanced Computer Graphics
Machine Learning
Technology Startup
Entrepreneurship for Engineers
Nano Semiconductor Physics
Practice on Data Structure and Algorithm
Data Mining
Studies in DBMS
Digital signal processing and its applications
Digital Image compression
Digital Image Processing
Digital Information Theory
Digital circuit design
Deep Learning
Mathematical Basics for Deep Learning
Deep learning for semiconductor vision processing
Simulation of Deformable Objects
Special Topics on Code and Cryptography
Coding Theory
Big Data Analysis
Advanced Big Data Analysis
Big data system
Bid Data Signal Processing
Smart City(IOT) Sensor Circuit
Seminar on Smart City Public Safety
Machine Learning Programming for Smart City
Seminar on Smart City
Practice and Project on Smart City
Understanding Smart City and Medical Signal Processing
Understanding Smart City and Disaster data
Special Topic in Smart City Application Project Management & Practice
Special Topics In System Semiconductor Test
Signal Detection and Estimation
Analog circuit design
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Image Communication Systems
Image analysis and understanding
Flexible Semiconductor Device Engineering
Discrete Time Signal Processing
Artificial Neural Network
Artificial Intelligence
Mathematics for AI and Communications
CAD Experiment of Artificial Intelligence Semiconductor
Mathematics for Artificial Intelligence
Artificial Intelligence programming
Low-Power, High speed IC Design
Low-power electronic circuit design
Information Display Engineering
Information Estimation Theory
Intelligent Control
Intelligent Communications Engineering
High-speed, Highly Integrated Memory Architecture

Intelligent System Semiconductor Design
Intelligent video surveillance system
Intelligent IoT Computing Platform
Business Model Planning using Intellectual Property
Integrated Circuit Process Engineering
Integrated Circuit CAD Experiment
CAD Experiment for Vehicle Semiconductor
Next Generation Wireless Communication Engineering
Specialized design for next-generation semiconductor testing
Special Topic in Next Generation Software Engineering Application
Next Generation Convergence Mobile Communication Engineering
Next Generation Intelligent?Wireless Communication Engineering
Next Generation Intelligent Convergence Wireless Communication Engineering
Next Generation Intelligent Mobile Communication Engineering
Next Generation Intelligent?Information and Communication Engineering
Next Generation Cloud Computing
Next Generation AI Integrated Circuit
Optimal Control
The fundamentals of python and machine learning
Data and signal processing using Python
Machine learning using pytorch
Introduction to Haptic
Pattern Recognition
Co-Op(Internship)
Special Topics on IoT Security
IOT Intelligent Sensor System Engineering
IOT Compound Semiconductor Device Engineering

■ Professors

- Yonggwan Won Ph.D.
  [Professor, Computational(Artificial) Intelligence, Biomedical Engineering, Healthcare System, ykwon@jnu.ac.kr]
- Jaehyung Park Ph.D.
  [Professor, State-of-the-Art of Network Technology and Security, hyeoung@jnu.ac.kr]
- Jin-Sul Kim, Ph.D.
  [Professor, Multimedia, QoS/QoE, Edge Computing, Intelligence Platform, Metaverse, AI, Digital Content, IT Convergence Technologies, jsworld@jnu.ac.kr]
- Hosung Park, Ph.D.
  [Associate Professor, Coding theory, Communications systems, Information theory, hpark1@jnu.ac.kr]
- Sunyong Yoo, Ph.D.
  [Assistant Professor, Bio and medical informatics, Artificial intelligence, Bigdata analysis, syyoo@jnu.ac.kr]
- Suhyung Park, Ph.D.
  [Assistant Professor, Medical Signal and Image Processing, suhyung@jnu.ac.kr]
- Young-woo Lee, Ph.D.
  [Assistant Professor, VLSI/SoC design, ylee@jnu.ac.kr]
- Jin-Young Kim, Ph.D.
  [Professor, Signal Processing, beyondi@jnu.ac.kr]
- Sung-Hoon Hong, Ph.D.
  [Professor, Image Processing, hsh@jnu.ac.kr]
- Sung-June Baek, Ph.D.
  [Professor, Digital Signal Processing, tozero@jnu.ac.kr]
- Tae-Jin Jung, Ph.D.
  [Professor, Wireless Communication, tjjung@jnu.ac.kr]
- Intae Hwang, Ph.D.
  [Professor, Next-generation AI convergence information/wireless/mobile/vehicle communication,

hit@jnu.ac.kr]

- Taeksoo Ji, Ph.D.
  [Professor, Semiconductor & Electronic device, tji@jnu.ac.kr]
- Myoung-Jin Lee, Ph.D.
  [Professor, Intelligent semiconductor device & circuit design, mjlee@jnu.ac.kr]
- Hyun-Duk Choi, Ph.D.
  [Assistant Professor, Next Generation Intelligent Control, ducky.choi@jnu.ac.kr]
- Myeongjin Kim, Ph.D.
  [Assistant Professor, VR&AR, Haptic, Artificial intelligence, Computer Graphics, Computer vision, myeongjin@jnu.ac.kr]
- Jinseok Park, Ph.D.
  [Assistant Professor, RF/Analog Semiconductor Circuit Design, jinseok131@jnu.ac.kr]

■ Laboratories

- Intelligent Computing & Bio-Medical Engineering Lab.
  · Yonggwan Won Ph.D.
- Network Technology & Security Lab.
  · Jaehyung Park Ph.D.
- Hyper Intelligent Media Network Platform Lab.
  · Jin-Sul Kim, Ph.D.
  · https://hi-iot.github.io
- Coding & Intelligent Communications Lab.
  · Hosung Park, Ph.D.
  · http://cctl.jnu.ac.kr
- Bio and Medical Informatics Lab.
  · Sunyong Yoo, Ph.D.
  · http://bmil.jnu.ac.kr
- Intelligent Medical Imaging and Signal Processing Lab.
  · Suhyung Park, Ph.D.
  · https://sites.google.com/view/sparks-lab/home
- System IC Design Technology Lab.
  · Young-woo Lee, Ph.D.
  · http://soc.jnu.ac.kr
- Intelligent Electronics Lab.
  · Jin-Young Kim, Ph.D.
- Visual Information Processing System Lab.
  · Sung-Hoon Hong, Ph.D.
  · https://jnuvipslab.wixsite.com/vips
- Broadband Wireless Communication Lab.
  · Tae-Jin Jung, Ph.D.
- Digital Signal Processing Lab.
  · Sung-June Baek, Ph.D.
- Information and Telecommunication Research Lab.
  · Intae Hwang, Ph.D.
  · http://itrl.jnu.ac.kr
- Semiconductor Device Research Lab.
  · Taeksoo Ji, Ph.D.
  · http://sdrg.jnu.ac.kr
- Intelligent Semiconductor and Circuit Lab.
  · Myoung-Jin Lee, Ph.D.
  · https://blog.naver.com/idclab
- Next Generation Intelligent Control Lab.
  · Hyun-Duk Choi, Ph.D.
  · https://chlgusejr87.wixsite.com/aics
- Visuo-haptic Mixed Reality Lab.
  · Myeongjin Kim, Ph.D.
  · https://sites.google.com/view/vhmrlab/vhmr-lab
- High Speed Integrated Circuit & System Lab.
  · Jinseok Park, Ph.D.
  · https://jinseok131.wixsite.com/jnu-hsic

Department of Industrial Engineering

Contact Information
Phone: +82-62-530-1780
Fax: +82-62-530-1789
E-mail: iejnuackr@gmail.com
URL: http://ie.jnu.ac.kr

■ Graduate Studies in Industrial Engineering

Industrial Engineering deals with various issues such as software design, system management, statistical application and artificial intelligence. Studies undertaken at the graduate level are firmly based on undergraduate curricula. Qualified students perform advanced cutting-edge research. Under the supervision of faculty members, students are offered the opportunity to apply their knowledge and to lead many research projects supported by academic institutes and the private sectors.

■ Degree Requirements

Master's Program

The Master's Program generally takes two years to complete and requires students to earn 24 credits and submit a master's thesis. In the Department of Industrial Engineering, there are eight Laboratories for master's students to take part in: Reliability & Communication Management Lab, Autonomous Vehicle Research Lab, HCI & Design Lab, Stochastic Systems & Creative Problem Solving Lab, Knowledge Service Engineering Lab, Data Mining Lab, Management of Technology Lab, and Optimization Lab.

Ph.D. Program

Ph.D. candidates are required to earn 60 credits including credits already earned during master's courses and present a dissertation that offers academically significant contributions and new findings. It will be carefully examined by five committee members. Ph.D. candidates must demonstrate their excellence in research and understanding of leadership in various fields of society.

■ What Do You Study?

Major Courses

Advanced Computer Vision
Advanced Data Mining
Advanced Decision Analysis
Advanced Design Engineering
Advanced Design and Analysis of Experiments
Advanced Evolutionary Algorithms
Advanced Human Interface Engineering
Advanced Inventory Management
Advanced Knowledge Engineering
Advanced Linear Programming
Advanced Logistics Management
Advanced Probability and Statistics
Advanced Programming Language

Advanced Project Management
Advanced Quality Management
Advanced Supply Chain
Advanced Technology Management
Advanced Topics in Service Engineering
Advanced Topics in Systems Safety Engineering
Advanced Topics on Product and Technology Innovation
Advanced product development engineering
Application of Image Processing
Applied Probability
Case Study of Industrial Engineering
Case Study of Systems Engineering
Cognitive Systems Engineering
Collaboration and Interaction Design
Complex Systems Engineering
Computer Application to I.E
Creative Problem Solving Project
Evolutionary Algorithms
Graphics and Visualization Design
HCI Research Methodology
Human Decision Making and Support
Information Design and Visualization
Metaheuristics
Multivariate Statistical Methods
Neural network algorithms and Applications
Optimization Theory
Production Innovation Methodology
Queueing Theory
Reliability Engineering and Maintenance Theory
Research Guidance 1
Research Guidance 2
Research Guidance 3
Research Training 1
Research Training 2
Simulations
Special Topics in Industrial Engineering
Special Topics on Machine Learning
TOC Constraint Management
TOC Thinking Process
Technological Innovation Policy
Theory and Practice of Creative Problem Solving
UX and Service Design

■ Professors

- Chung, Sang Wook, Ph.D.
  [Professor, Reliability Engineering, swchung@jnu.ac.kr]
- Lee, Joon-Woong, Ph.D.
  [Professor, Computer Vision & Software Development for Autonomous Vehicles, joonlee@jnu.ac.kr]
- Lee, Jae Yeol, Ph.D.
  [Professor, HCI Design, jaeyeol@jnu.ac.kr]
- Kim, Nam Ki, Ph.D.
  [Professor, Stochastic Systems & Creative Problem Solving, freedom@jnu.ac.kr]
- Ham, Dong-Han, Ph.D.
  [Professor, Cognitive Systems Engineering, Human-Computer Interaction, & System Safety, dhham@jnu.ac.kr]
- Jeong, Young-Seon, Ph.D.
  [Professor, Statistical Data Mining, Intelligent Transportation Systems, young.jeong@jnu.ac.kr]
- Joo, Si-Hyung, Ph.D.
  [Associate Professor, Management of Technology, innovation@jnu.ac.kr]
- Joung, Seul Gi, Ph.D.
  [Assistant Professor, Optimization under uncertainty & Applications of OR, sgjoung@jnu.ac.kr]

■ Laboratories

- Reliability & Communication management Lab
- Autonomous Vehicle Research Lab
- HCI & Design Lab
- Stochastic Systems & Creative Problem Solving Lab
- Knowledge Service Engineering Lab
- Data Mining Lab
- Management of Technology Lab
- Optimization Lab

Department of Intelligence Information Convergence

Contact Information
Phone: +82-62-530-0797
E-mail: pow_talk@jnu.ac.kr
URL : G5-AICT@jnu.ac.kr

■ Graduate Studies in Intelligence Information Convergence

Our graduate school deals with artificial intelligence and ICT technologies (IoT, Cloud, Big data, Cybersecurity), which are core technologies in the era of the 4th Industrial Revolution. Based on AI and ICT convergence technology, we acquire new future technologies in the field in five fields (Mobility, Healthcare/Medical, Cultural Contents/Arts, and Production/Manufacturing/Management).

We pursue nurturing talent that discovers challenging technologies, new technologies, and safety technologies and conducts joint research and development with domestic and foreign innovative organizations.

■ Degree Requirements

Students must acquire 12 credits for the master's program, 15 credits for the doctoral program, and 27 credits for the integrated master's and doctoral program in the Department of Intelligence and Information Convergence curriculum.

· Applicants with a similar department* history can have credits earned in a similar or related department* recognized as credits earned in the Department of
Intelligent Information Convergence.

* Similar departments: Department of Electronic and Computer Engineering, Department of ICT Convergence System Engineering

To submit a graduation thesis, master's students must present at least one paper at a domestic academic conference, and doctoral students must present at least one SCI paper or two papers as the lead author in a domestic academic journal.

■ What Do You Study?

The fundamentals of python and machine learning (3)
Introduction to ICT Convergence (3)
IoT Computing Basics (3)
Mathematical Basics for Deep Learning (3)
Data Mining (3)
Special Topic in Next Generation Software Engineering Application (3)
Next Generation Cloud Computing (3)
IoT Data Analysis (3)
Machine learning using pytorch (3)
Linear Algebra for Deep Learning (3)
Big Data Computing (3)
machine learning (3)
Data Science Application security (3)
Probability and Statistics (3)
Mathematics for AI and Communications (3)

Artificial Neural Network (3)
Artificial Intelligence Innovation Project Design 1,2 (3)
Mobility Control System Security (3)
Intelligent Control (3)
Optimal Control (3)
Next Generation Convergence Mobile Communication Engineering (3)
Next Generation Intelligent Mobile Communication Engineering (3)
Distributed Object System (3)
Intelligent Mobility Project Design 1,2 (3)
SmartGrid (3)
Advanced Power Communications (3)
Advanced Power Communication Systems (3)
Energy Artificial Intelligence (3)
Intelligent Energy Project Design 1,2 (3)
Medical Bioinformatics (3)
Understanding Smart City and Medical Signal Processing (3)
Pattern Recognition (3)
Information Display Engineering (3)
IOT Intelligent Sensor System Engineering (3)
Intelligent Healthcare/Medical Project Design 1,2 (3)
Culture Technology Seminar (3)
Human Media Interaction Research (3)
Bid Data Signal Processing (3)
3D Multimedia (3)
Intelligent cultural contents/art project design 1,2 (3)
Data Science SW Platform (3)
High-speed, Highly Integrated Memory Architecture (3)
Special Topics in Digital Twin Production (3)
Special Topics in System Semiconductor Test (3)
DC-based Smart Distribution Power Semiconductor (3)
Data Science Application security (3)
Computer-aided IC design (3)
Technology management of small-and-medium-sized company (3)
Intelligent production manufacturing management project design 1,2 (3)
Special Topic in Cloud CRM administrator (3)
Industrial safety technology management (3)
Advanced Machine Learning /Deep Learning (3)
data analysis & visualization using R (3)

■ Professors

• In-Tae Hwang, ph.D.
[Professor, Electric engineering, hit@jnu.ac.kr]
• Kyung-Baek Kim, ph.D.
[Professor, Software Engineering, kyungbaekkim@jnu.ac.kr]
• Chansoo Kim, ph.D.
[Professor, Intelligent mobility convergence, chansoo.kim@jnu.ac.kr]
• Chunhwan Lee, ph.D.
[Professor, Intelligent mobility convergence, chunhwan@jnu.ac.kr]
• Hyunduk Choi, ph.D.
[Professor, Electric engineering, ducky.choi@jnu.ac.kr]
• Ik-Chae Um, ph.D.
[Professor, Data Science Graduate School, iceuom@jnu.ac.kr]
• Hyunwook Kang, Ph.D.
[Professor, Mechanical Engineering, kanghw@jnu.ac.kr]
• Jaehyung Park, ph.D.
[Professor, Computer Information and Communication Engineering, hyeoung@chonnam.ac.kr]
• Dukjae Choi, ph.D.
[Professor, Software Engineering, dchoi@jnu.ac.kr]
• Hosung Park, ph.D.
[Professor, Computer Information and Communication Engineering, hpark1@jnu.ac.kr]
• Soohyung Park, ph.D.
[Professor, Computer Information and Communication Engineering, suhyung@jnu.ac.kr]
• Sungjun Baek, ph.D.
[Professor, Electric engineering, tozero@jnu.ac.kr]

• Hyungjung Yang, ph.D.
[Professor, Data Science Graduate School, hjyang@jnu.ac.kr]
• Yongkwan Won, ph.D.
[Professor, Computer Information and Communication Engineering, ykwon@jnu.ac.kr]
• Sunyong Yoo, ph.D.
[Professor, Computer Information and Communication Engineering, syyoo@jnu.ac.kr]
• Taeksoo Ji, ph.D.
[Professor, Electric engineering, tji@jnu.ac.kr]
• Seungwon Kim, ph.D.
[Professor, Department of Artificial Intelligence, Seungwon.Kim@jnu.ac.kr]
• Jinsool Kim, ph.D.
[Professor, Computer Information and Communication Engineering, jsworld@jnu.ac.kr]
• Jinyoung Kim, ph.D.
[Professor, Electric engineering, beyondi@jnu.ac.kr]
• Chunsung Shin, ph.D.
[Professor, Graduate School of Cultural Studies, cshin@jnu.ac.kr]
• Taewon Um, ph.D.
[Professor, Data Science Graduate School, stwum@jnu.ac.kr]
• Hoijung Im, ph.D.
[Professor, Data Science Graduate School, hjlim@jnu.ac.kr]
• Youngjun Cho, ph.D.
[Professor, Software Engineering, yj.cho@chonnam.ac.kr]
• Youngwoo Lee, ph.D.
[Professor, Computer Information and Communication Engineering, ylee@jnu.ac.kr]
• Myungjin Kim, ph.D.
[Professor, Computer Information and Communication Engineering, myeongjin@jnu.ac.kr]
• Myungjin Lee, ph.D.
[Professor, Electric engineering, mjlee@jnu.ac.kr]
• Sangjun Lee, ph.D.
[Professor, Business Administration, s-lee@jnu.ac.kr]

■ Laboratories

- Intelligent Innovation G5-AICT Research Center

Department of Materials Science and Engineering

Contact Information
Phone: +82-62-530-1711
Fax: +82-62-530-1699
E-mail: kye7@jnu.ac.kr
URL: http://mse.jnu.ac.kr/

■ Graduate Studies in Materials Science and Engineering

Materials Science and Engineering (MSE) is an interdisciplinary field that deals with the discovery and design of new or high-performance materials, constituting modern civilization and industrial developments. The field involves studying materials through the materials paradigm ? synthesis, structure, properties, and performance. It incorporates elements of physics and chemistry and is at the forefront of nanoscience and nanotechnology research. The mechanical, electrical, optoelectronic, and electrochemical properties of metals and ceramic materials are utilized for transportation machinery, semiconductor devices, energy and environmental devices such as batteries, fuel cells, solar cells, and medical applications.

Eminent large-scale national projects, such as WCU, BRL, Get-Future, and BK21+, along with numerous individual government and industrial projects, indicate the high-level research activities in Graduate Studies in MSE at Chonnam National University. The graduate students are trained for R&D career paths in industrial laboratories, research institutes, and also for faculty positions at colleges and universities.

■ Degree Requirements

Master's Program

Applicants should have an undergraduate degree in an engineering discipline. Candidates from other backgrounds should take the required undergraduate courses during the graduate course. Master's degree candidates are required to earn a minimum of 24 credits, pass the foreign-language and qualifying examinations, and prepare a thesis evaluated by a 3-member committee.

Ph.D. Program

Ph.D. candidates should hold a master's degree in an engineering or natural science discipline. Students are required to earn at least 36 credits, pass the foreign-language and qualifying examinations, and submit a thesis. The dissertation, examined by at least 5 committee members, must make a substantial contribution to the field of Materials Science and Engineering.

Combined Degree Programs

Combined degree programs allow qualified candidates to earn a bachelor's/master's degree in as little as five years or to focus directly on the Ph.D. dissertation without submission of Master's thesis.

■ What Do You Study?

Advanced Ceramics Processing
Advanced Course Of Inorganic Materials
Advanced Course of Instrumental Analysis
Advanced Crystallography
Advanced Electron Microscopy
Advanced Energy Materials Engineering
Advanced Ferrous Alloys
Advanced Foundry Metallurgy
Advanced Materials Characterization
Advanced Materials Science
Advanced Mechanical Behavior Of Materials
Advanced Metallography
Advanced Non Ferrous Alloys
Advanced Quantum Mechanics
Advanced Solid Thermodynamics
Advanced Solidification Theory
Advanced Transport Phenomena
Amorphous Materials
Battery Interface Engineering
Battery Materials
Battery Materials Science
Bio-ceramics
Computational and AI Assisted Materials Science
Corrosion and Protection of Materials
Crystal Structure Analysis
Electrochemical Energy Conversion and Storage
Electrochemistry
Electronic Materials
Industry-academia Seminar on Materials Science and Engineering
Kinetic Processes in Solids
Light Metals and Materials
Material Design for Secondary Batteries
Materials for Rechargeable Batteries
Materials Science and Engineering Capston Design
Materials Science and Engineering Field Practice
Mechanical Properties of Thin Films
Metallic Biomaterials
Metals and Alloys for Medical Use
Nanointerface Engineering
Nano-processing for Energy Materials
Nonstoichiometry of Materials
Optical Properties of Materials
Optoelectronic Materials Engineering
Physics-based Impedance Spectroscopy
Plasma Processing of Materials
Research Guidance 1/2/3
Research Training 1/2
Semiconductor Physics
Sensor Materials and Devices
Solid State Electrochemistry
Solid State Ionics
Solid State Lighting Device
Special Lecture of Nanomaterials Engineering
Special Lecture of Semiconductor Materials and Devices
Strengthening and Fracture of Metals
Surface Phenomena of Materials
Technical writing in materials science & engineering
Theory and Practice of Electron Microscopy
Theory of Phase Transformation in Metal Alloys
Thin Film Materials and Processing
Ultra-precision Measurement Physics 1/2
Vibrational Spectroscopy
X-Ray Analysis of Materials

■ Professors

- Ho-Sung Kim, symmetry@jnu.ac.kr
  [Crystal Structure Analysis & Crystal Growth]
- Kwangmin Lee, kmlee@jnu.ac.kr
  [Nano- & Bio-materials]
- Youngman Kim, kimy@jnu.ac.kr
  [Mechanical & Thermal Characterizations of Thin Films]
- Sung-Kil Hong, skhong@jnu.ac.kr

[Light Metals, Mold & Automotive Parts Materials]
- Jin-Hyeok Kim, jinhyeok@jnu.ac.kr
  [Photonic Electronic Thin Film Growth & Characterization]
- Jaekook Kim, jaekook@jnu.ac.kr
  [Design, Synthesis, Characterization of Nano Energy Materials]
- June Key Lee, junekey@jnu.ac.kr
  [Semiconductor Process Design]
- Jong-Sook Lee, jongsook@jnu.ac.kr
  [Electroceramics]
- Sun-Ju Song, song@jnu.ac.kr
  [Ionics, Energy Materials]
- Chan-Jin Park, parkcj@jnu.ac.kr
  [Corrosion & Energy Materials, Materials Electrochemistry]
- FISHER JOHN GERARD, johnfisher@jnu.ac.kr
  [Green Energy Materials]
- Jaeyeong Heo, jheo@jnu.ac.kr
  [Nanodevices & Materials for Energy]
- Hoonsung Cho, cho.hoonsung@jnu.ac.kr
  [Biomaterials]
- Yeongho Kim, ykim2023@jnu.ac.kr
  [Next-generation Semiconductor]
- Tae-Hoon Kim, thk@jnu.ac.kr
  [Multiscale Microstructure Analysis]
- Kootak Hong, kthong@jnu.ac.kr
  [Advanced Electronic Materials and Devices]

■ Laboratories

- Single Crystal Growth Lab
- Nanomaterials Processing Lab
- Mechanical Metallurgy Lab
- Light Metal Materials Lab
- Photonic and Electronic Thin Film Lab
- Nano Energy Lab
- Semiconductor Process Design Lab
- Electroceramics Lab
- Ionics Lab
- Materials Electrochemistry Lab
- Green Energy Materials Lab
- Nanodevices and Materials for Energy Lab
- Advanced Biomaterials Lab
- Next-generation Semiconductor Devices Lab
- Multiscale Microstructure Analysis Lab
- Advanced Electronic Materials and Devices Lab

Department of Mechanical Engineering

Contact Information
Phone: +82-62-530-1660, 1670
Fax: +82-62-530-1689
E-mail: A4860@jnu.ac.kr
URL: http://mech.jnu.ac.kr

■ Graduate Studies in Mechanical Engineering

Mechanical Engineering is a broad and dynamic discipline that encompasses a wide range of technological fields. It encompasses the complete spectrum of activities involving the design, manufacturing, and control of mechanical systems. With rapid advancements in technology, Mechanical Engineering is continuously pushing its boundaries, venturing into modern and high-tech domains. These cutting-edge areas include robotics, hydrogen energy, fuel cells, optics, composites, nano-technology, smart materials, automotive engineering, and AI. As a field that constantly evolves, Mechanical Engineering remains at the forefront of innovation, driving progress in various industries.

■ Degree Requirements

Master's Program

The graduate program is designed with the primary goal of providing top-tier academic instruction and fostering advanced research skills among students. Prospective applicants should possess an undergraduate degree in environmental engineering or a related field, demonstrating a solid academic foundation. However, individuals from diverse academic backgrounds will also be taken into consideration, provided they exhibit appropriate qualifications and a genuine interest in the program's focus.

Candidates pursuing a Master's degree are expected to complete a minimum of 24 credit hours and culminate their studies by submitting a thesis centered around an original research project. The successful fulfillment of these requirements is anticipated within a time-frame of two to three years from the start of enrollment. This program is tailored to cultivate a deep understanding of environmental engineering principles while encouraging the development of valuable research capabilities.

Ph.D. Program

Ph.D. candidates embark on a personalized research endeavor guided by an appointed supervisor, channeling their efforts into a comprehensive individual project. The culmination of their work and discoveries is presented in the form of a meticulously prepared dissertation. This document undergoes examination by a committee comprised of a minimum of 5 members, each contributing their expertise to assess the significance of the candidate's contributions within the scientific or engineering domains.

Furthermore, students are expected to engage rigorously in coursework, amassing a total of no less

than 60 credits. This credit requirement encompasses the credits acquired during the pursuit of a master's degree, in addition to successfully passing a foreign language examination.

Degrees are conferred upon those who satisfactorily fulfill these requisites within a span of two to five years from the initiation of their enrollment. This Ph.D. program is structured to foster profound scholarly advancement, while also ensuring a comprehensive grasp of the relevant subject matter.

■ What Do You Study?

Adv. Control Engineering
Adv. Mechanical Vibration
Adv. System Engineering
Advanced Automotive and Environment
Advanced Combustion Engineering
Advanced Course of Applied Mathematics
Advanced Course of Composite Materials
Advanced Design Engineering
Advanced Dynamics
Advanced Eco-friendly vehicles
Advanced Electrochemical Power Systems
Advanced Energy Conservation and Transfer
Advanced Fluid Mechanics
Advanced Fluid Mechanics
Advanced Internal Combustion Engine
Advanced Material Strength
Advanced Mechatronics
Advanced MEMS
Advanced Microrobotics
Advanced mold design
Advanced Nonlinear Control
Advanced Robotics
Advanced Signal Processing
Advanced Solid Mechanics
Advanced Thermodynamics
Aerosol Technology
Application of Hydrogen Energy
Applications of ultrashort pulse lasers
Autonomous Mobile Robot
Biomaterials
Biomechanics
Biomimetics
Computational Fluid Dynamics
Conduction Heat Transfer
Continuum Plasticity
Convective Heat Transfer
Design and fabrication of microsystems
Finite Element Method
Fracture Mechanics
Fuel Cell Power System
Future Transportation System Engineering
Interfacial Fluid Mechanics
Introduction to Mechatronics and Measurement Systems
Medical Robotics
Micro Thermal and Fluid System
Microfluidics
Modern Robotics
Nano process and measurement
Optical Engineering
Optimal Control
Optimal Design of Thermal System
Plastic Molding Technology and Its Application
Precise Sensor and Metrology
Production Technology
Research Guidance 1
Research Guidance 2
Research Guidance 3
Research Training 1
Research Training 2
Seminar on Mechanical Engineering
Structural Dynamics
Surface Energy and Nano Mechanics
Turbulence
Two-Phase Flow
Ultra Light Metal Structures
Viscoelasticity

Professors

- Ki-Ju Kang, Ph.D.
  [Professor, Mechanics of Solids and Structures,
  jkang@jnu.ac.kr]
- Bo-Seon Kang, Ph.D.
  [Professor, Spray Analysis using Optical Techniques,
  bskang@jnu.ac.kr]
- Hyun Wook Kang, Ph.D.
  [Professor, Micro Fluidics, Nano Technology and System
  kanghw@jnu.ac.kr]
- Seong-Yong Ko, Ph.D.
  [Professor, Medical Robotics, Service Robotics,
  sko@jnu.ac.kr]
- Woohyun kim, Ph.D.
  [Professor, Modeling, analysis and control of thermal systems,
  whkim@jnu.ac.kr]
- Chang-Sei Kim, Ph.D.
  [Associate Professor, Dynamics and Control, Biomedical System,
  ckim@jnu.ac.kr]
- Chang-Bae Moon, Ph.D.
  [Associate Professor, Mobile Robot / Autonomous Vehicle,
  cbmoon@jnu.ac.kr]
- Gyuhae Park, Ph.D.
  [Professor, Smart Material/sensor/actuator,
  gpark@jnu.ac.kr]
- Jinsoo Park, Ph.D.
  [Assistant Professor, Microfluidics / Flow Visualization, jinsoopark@jnu.ac.kr]
- Seoung-Yun Seol, Ph.D.
  [Professor, Super Conductors,
  syseol@jnu.ac.kr]
- Young-Soo Yang, Ph.D.
  [Professor, Analysis of Welded Structures,
  ysyang@jnu.ac.kr]
- Dong-Weon Lee, Ph.D.
  [Professor, MEMS and NEMS,
  mems@jnu.ac.kr]
- Bong-Kee Lee, Ph.D.
  [Professor, Multiscale Molding & Manufacturing,
  b.lee@jnu.ac.kr]
- Wonoh Lee, Ph.D.
  [Professor, Composite Materials / Energy Materials, wonohlee@jnu.ac.kr]
- In-Su Jeon, Ph.D.
  [Professor, Mechanics of Materials,
  i_jeon@jnu.ac.kr]
- Seunghun Jung, Ph.D.
  [Professor, Electrochemical energy system, hybrid vehicles
  shjung@jnu.ac.kr]
- Byung-Chul Choi, Ph.D.
  [Professor, Combustion Engineering, Technology for Engine After-treatment,
  bcchoi @jnu.ac.kr]
- Eunpyo Choi, Ph.D.
  [Associate Professor, Medical micro/nano robotics, eunpyochoi@jnu.ac.kr]
- Seunghwoi Han, Ph.D.
  [Assistant Professor, Laser engineering, nano optics, optical sensor, shan@jnu.ac.kr]
- Ki Joon Heo, Ph.D.
  [Assistant Professor, Bioaerosol, Antimicrobial surface, Filtration, k.heo@jnu.ac.kr]
- Soonwook Hong, Ph.D.
  [Assistant Professor, Thin-film Fuel Cell, Hydrogen Production, Nano-scale Catalysts,
  shong@jnu.ac.kr]
- Ayoung Hong, Ph.D.
  [Assistant Professor, Autonomous Intelligent Robotics, ahong@jnu.ac.kr]

Laboratories

- Active Structures and Dynamics Laboratory
- Advanced Combustion Control Lab
- Advanced Fluidics & Nanotechnology Lab
- Aerosol and Surface Lab
- Autonomous and Intelligent Robotics Lab
- Building Self-monitoring, Analysis & Reporting Technologies Lab.
- Composites & Mechanics Lab
- Electrochemical Power Lab
- Building Self-monitoring, Analysis & Reporting Technologies Lab
- Integrated Control and Robotics Lab(iCARL)
- Intelligent Robotics and Vehicle Lab
- Material Strength Lab
- MeRIC-Lab(Medical Robotics and Intelligent Control Laboratory)
- Micro/Nano Robotics Lab
- MNTL (Micro/Nano Technology Laboratory)
- Multiscale Flow Control Lab
- Multiscale Molding & Manufacturing (M3) Lab
- Renewable Energy Prototyping Lab
- Ultraprecision Photonics (UP) Lab
- X-Lab

Department of Polymer Engineering

Contact Information
Phone: +82-62-530-1870
Fax: +82-62-530-1879
E-mail: minda99@jnu.ac.kr
URL: http://pf.jnu.ac.kr/

■ Graduate Studies in the Department of Polymer Engineering

Polymer engineering is an academic field dealing with the synthesis, properties, processing, and application of polymers. Polymers are giant molecules that have significance not only in terms of products such as plastics, rubber, fiber, adhesives, and coatings, but also less obviously though none the less importantly, in many leading industries (new materials, biochemistry, biomedical, environments, aerospace, electronics, automotive, etc.). The Department is dedicated to producing high-quality graduates who are able to make significant engineering contributions toward enhancing the quality of life of human beings. The objectives of our academic functions are the practical application of scientific and engineering principles to generate new material and processing concepts, and the enhancement of technical problem-solving capabilities related to the production and use of polymers.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in a polymer engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Ph.D. Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields. In addition, students are required to earn at least 60 credits in coursework including the credits already earned for the master's degree as well as pass one foreign language exam. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Sensitive Polymer
Advanced Surface Chemistry
High performance functional fibers
Advanced Polymer Processing (1)
Advanced Polymer Processing (Ⅱ)
Advanced Polymer Engineering (1)
Advanced Polymer Engineering (Ⅱ)
Structure and Properties of Macromolecules
Advanced Instrumental Analysis of Polymer (1)
Advanced Instrumental Analysis of Polymer (Ⅱ)
Advanced Polymer Rheology
Advanced Physical Chemistry of Polymer
Advanced Polymer Reactions
Organic Composite Materials
Membrane Separation
Advanced Polymer Testing Method
Advanced Polymer Solution
Polymers in Electronics
Advanced Polymer Chemistry (Ⅰ)
Advanced Polymer Chemistry (Ⅱ)
Advanced Functional Polymers (Ⅰ)
Advanced Functional Polymers (Ⅱ)
Functional Dyestuffs
Functional Carbon Materials
Nanostructured Organic Materials for Electronics and Photonics
Special topics of Nanostructured techniques for Nanofabrication
Multicomponent Polymer Materials
Organic Electronic Materials and Devices for Displays
Microcapsule
Hair Science
Advanced Course of Fiber Formation
Structural Mechanics of Non-woven Fabrics
Advanced Course of Industrial Textile Materials
Advanced Course for Color Science
Advanced Biopolymers
Introduction of Petroleum Chemistry
Fiber Modification
Chemical Reaction of Fibrous Polymers
Advanced Course of Fiber Function Design
Physical Properties of Fibers
Advanced Course of Fibrous Materials
Advanced Water-soluble Polymers
Special Seminar1
Carbon Materials for Energy and Environment
Advanced Elastomer Engineering
Advanced Course of Physical Chemistry of Dyeing
Organic-Inorganic Hybrid Materials
Advanced Organic Chemistry
Polymer Colloids
Advanced Transport Phenomena
Low dimensional carbon materials
Conducting Polymers
Computer Applications in Textile Engineering
Kinetics of Polymerization
Natural Polymers
Advanced Course of Natural Fibrous Polymers
Structure and Properties of Carbon Fibers
Technical Writing
Texturing

■ Professors

- Yang-Il Huh, Ph.D.
  [Professor, Polymer Membranes, yihuh@jnu.ac.kr]
- Yoong-Ahm Kim, Ph.D.
  [Professor, Nano Carbon Materials, yak@jnu.ac.kr]
- Jong-Jin Park, Ph.D.
  [Professor, Functional Polymer, Electronic Materials, jjpark@jnu.ac.kr]
- Hyeon-Seok Yoon, Ph.D.
  [Professor, Functional Nano Materials, hyoon@jnu.ac.kr]

• Min-Cheol Chang, Ph.D.
[Professor, Polymer Semiconductor Materials & Devices, mcchang35@jnu.ac.kr]
• Hyung-Woo Kim, Ph.D.
[Professor, Design and synthesis of organic materials, kimhw@jnu.ac.kr]
• Soo-Mi Huh, Ph.D.
[Associate Professor, Theory and Simulations for Soft Materials, shur@jnu.ac.kr]
• Doojin Lee, Ph.D.
[Associate Professor, Polymer Composites and Processing, dlee@jnu.ac.kr]
• Won Seok Chi, Ph.D.
[Assistant Professor, Energy Materials, wschi@jnu.ac.kr]
• Changhun Yun, Ph.D.
[Assistant Professor, Integrated Electronic Materials, chyun2020@jnu.ac.kr]
• Yeongun Ko, Ph.D.
[Assistant Professor, Polymer Interfacial Engineering, yeongunko@jnu.ac.kr]

■ Laboratories

- PM[Polymeric Materials/Polymeric Membranes) Lab
- Nanocarbon Lab
- Functional Polymer System Lab
- Functional Nanomaterials Lab
- Energy and Electronics Materials Lab
- Functional Organic Materials Synthesis Lab
- Theory and Simulations for Soft Matters Lab
- Polymer Composites and Processing Lab
- Energy Materials Lab
- Integrated Electronic Materials Lab
- Polymer Interfacial Engineering Lab

Interdisciplinary Program of Bioenergy and Biomaterials

Contact Information
Phone: +82-62-530-1048
Fax: +82-62-530-1949
URL:http://bte.jnu.ac.kr/

■ Graduate Studies in Bioenergy and Bio-materials

The interdisciplinary Graduate program of Bioenergy & Bio-materials is an academic discipline that researches and educates profound knowledge of bioenergy and bio-material. Bioenergy and bio-materials have become a very active and vital area of research which is rapidly developing in industrial sectors and spreading to almost every field of science and engineering. Bioenergy, a renewable energy, is derived from biomass including wood, straw, sugar cane, plant parts, garden waste, animal waste and other agricultural materials. Bioenergy is a research field to produce biofuel derived from biological sources in its most sense. Bio-materials research encompasses area such as design of biomolecules, biopolymer and biosensor resulting in exciting developments in bio-materials-based technologies over the last decade. Graduate students in our program will learn the theory and applications of biology, chemistry and engineering as it pertains to bioenergy and bio-material science and engineering. The diverse faculty members from several colleges and departments are participated in the interdisciplinary masters program of bioenergy and bio-materials. It should give a chance to students exposing to a wide range of projects and viewpoints on the cutting edge of the field. The program will accept both part-time and full-time students. Full-time graduate students typically receive financial support. Regardless of strong backgrounds, we have a place for students to grow in our program. Our alumni fulfil leadership roles in industry, research centers, and academia across a wide variety of sectors including bioenergy, bio-material, biotechnology, and bioengineering.

■ Degree Requirements

The master of interdisciplinary program of bioenergy and bio-materials requires 24 credits of coursework. A student studying for Ph.D. degree must earn an additional 36 credits. All of students in the programs must pass a foreign language exam, a qualifying exam, and a thesis submission for graduation.

■ What Do You Study?

Research for the Master's or Doctoral Degree
Climatical Change Agreement
Special Topics in Process Design
Scientific Writing
Advanced Biomass Conversion
Bioproducts
Biosystem Engineering
Advanced Bioenergy Plant Design
Advanced Bioenergy Engineering
Advanced Bioenergy Microbial

Biotechnology
Advanced Bioenergy Fermentation Technology
Bioenergy Production Processes & Practices Ⅰ(Biodiesel)
Bioenergy Production Processes & Practices Ⅱ(Bioethanol/Biogas)
Bioenergy Production Processes & Practices Ⅲ(Biodiesel)
Bioenergy Production Processes & Practices Ⅳ (Bioethanol/Biogas)
Bioenergy Seminar 1
Bioenergy Seminar 2
Bioenergy Seminar 3
Bioenergy Seminar 4
Advanced Bioenergy Materials
Bioenergy Quality Analysis & Practices Ⅰ
Bioenergy Quality Analysis & Practices Ⅱ
Bioenergy Quality Analysis & Practices Ⅲ
Bioenergy Quality Analysis & Practices Ⅳ
Advanced New & Renewable Energy
Advanced Energy Engineering
Advanced Energy Materials Analysis
Advanced Energy Materials Synthesis
Energy Policy
Advanced Energy Catalystic Chemistry
Advanced Environmental Biological Engineering
Environmental Energy Engineering
Advanced Technologies in Combustion Control
Advanced Microbial Biotechnology
Advanced Plant Metabolism
Advanced Plant Tissue Culture Ⅰ
Advanced Plant Tissue Culture Ⅱ
Special Topics in Protein Separation & Purification
Advanced Fermentation Technology
Cell Culture Engineering
Advanced Bioprocess Engineering
Advanced Bioprocess Control
Advanced Bioreactor Design
Advanced Bioseparation & Purification
Bioinfomatics
Advanced Plant Molecular Biology
Advanced Plant Physiology
Plant Tissue Culture
Special Topics in Metabolic Engineering
Biochemistry & Molecular Biology
Special Topics in Biochemistry
Biomedical Engineering
Advanced Carbohydrate Materials
Special Topics in Enzyme Process Engineering
Advanced Inorganic Material Chemistry
Advanced Catalyst Design Chemistry
Advanced Catalystic Chemistry
Advanced Crop Physiology
Crop Seed Physiology
Seminar in Seed Production
Advanced Energy Materials
Materials Analysis Technology
Advanced Synthesis Technology
Advanced Process Control
Acid Base Catalysts
Energy Environmental Engineering
Advanced Combustion Engineering
Advanced Solid Waste Treatment Engineering
Design & Operation of Bioreactor
Advanced Aquatic Chemistry

■ Professors

• Do-Heyoung Kim, Ph.D.
[Metal Organic Chemical Vapor, kdhh@jnu.ac.kr]
• Seong-Jun Kim Ph.D.
[Environmental Biotechnology, seongjun@jnu.ac.kr]
• Jong-il Choi, Ph.D.
[Biomolecules Engineering, choiji01@jnu.ac.kr]
• Seung Hwan Lee. Ph.D.
[Metabolic Engineering. leesh@jnu.ac.kr]

• Jae-Won Lee, Ph.D.
[Wood Chemistry, Bioenergy,
ljw43376@jnu.ac.kr]
• Sooim Shin, Ph.D.
[Protein Engineering,
sooim.shin@jnu.ac.kr]

• Tae Wan Kim, Ph.D.
[Bioprocess Development & Optimization,
chekimtw@jnu.ac.kr]
• Kibaek Lee, Ph.D.
[Environmental Biotechnology,
kibaek@jnu.ac.kr]

■ Laboratories

- Catalytic Chemical Lab.
- Environmental Biotechnology Lab.
- Biomolecules Engineering Lab.
- Metabolic Engineering Lab.
- Wood Chemistry Lab.
- Protein Engineering Lab
- Bioprocess Engineering Lab.
- Water & Environmental Biotechnology Lab.

Interdisciplinary Program of Cultural Properties

Contact Information
Phone: +82-62-530-1630
URL: http://cultupropt.jnu.ac.kr/

■ Graduate Studies in History

The Interdisciplinary Program in Cultural Properties was established to develop creative and original cultures by cultivating the experts and professionals who excavate and conserve Korean culture in the 21st century, the age of culture. For the program, interdisciplinary cooperation was made with nine related departments including Architecture, Korean Music, Korean Language Education, Korean Literature, Fine Arts, History, Food and Nutrition Science, Clothing, and Anthropology. We have offered a master's degree since 2003 and doctorate degrees since 2005.

Cultural Properties Studies is a convergence science covering researches on all kinds of culture, cultural assets or national properties, tangible, intangible and/or lost heritages, and cultural technologies. This interdisciplinary program aims to develop knowledgeable professionals and experts in cultural heritage studies who are equipped with related expertise and skills through our field-centric systematic educational approach, studying general topics related to culture and cultural properties.

■ Degree Requirements

Through the program, we expect to see our future scholars, experts, and professionals cultivated with research capabilities in cultural heritage or knowledge in national cultural properties for the related institutes, international and domestic museums, and art galleries.

■ What Do You Study?

Research for the Master's or Doctoral Degree

Generals

Appraisal of Cultural Properties (3)
Study on Cultural Heritage Protection Act (3)
Methodology of Cultural Properties (3)
Cultural Heritage Policy Research (3)
Methodology Designated as Cultural Properties (3)
Festival Cultural Heritage Tourism Research (3)
Cultural Heritage Content Development (3)
Methods and Theory in Excavation (3)
Methodology of Preservation Science (3)
Methodology of Heritage Restoration (3)
Methods and Theory in Site Survey (3)
Study on Korea a Cultural Area (3)
Korea Cultural History Research (3)
Seminar in Korean Historical Records (3)
A Study on the Religion Culture in Korea (3)
Theory of Cultural History (3)
A Study on the Regional Historical and Cultural Resources (3)
A Study on the Traditional Culture in Korea (3)

Tangible Cultural Heritage

Study of Architectural Heritage (3)
The Study of Public Documents (3)
Modern Cultural Heritage (3)
Studies in Cultural Relics of Mahan (3)
The Study of Anthology (3)
The Study of Buddhist Documents (3)
Study on Buddhist art (3)
Study of Pagoda (3)
The Study of Private Documents (3)
Studies of Cultural Stone-Constructed Heritage (3)
Studies in Underwater Cultural Relics (3)
Studies in Cultural Relics of Tombs (3)
Research in Korean Traditional Costume and Craft (3)
Traditional Calligraphy Study (3)
The Study of traditional paintings (3)
Research on royal cultural assets (3)

Intangible Cultural Heritage

Study of Metalcraft (3)
Ceramic Craft (3)
Study of Woodcraft (3)
Study on Traditional Folk Play (3)
Study of Stonecraft (3)
Studies in Musical Books (3)
Study oninstrumental genres of Korean music (3)
Study on vocal genres of Korean music (3)
Studies of traditional cooking methods (3)
Study on Korean Costume Constuction (3)
Theory of Performance (3)
Arts and Publicness (3)
Cultural Study of Music (3)

Monument

Study on the Traditional Occupations (3)
Study on Annual Customs (3)
Studies on dietary life (3)
Research in Clothing Life (3)
Studies in Living Life (3)
Study of scenic beauty Heritages (3)
Studies in Historic Relics (3)
Study on the Korea Natural Heritage (3)
Capstone Design for Cultural Heritage Field Work (3)
Ritual Culture Research (3)

World Culture

Studies in World Heritage (3)
Study on the World Natural Heritage (3)
The Study of Human Recording Inheritance (3)
Study on the Intangible Cultural Heritage of Humanity (3)

■ Professors

- Dae-Hyun Kim, Ph.D.
  [Professor, Korean Classical Literature, Ancient and Old Documents, kdh@jnu.ac.kr]
- Byoung-In Kim, Ph.D.
  [Professor, Medieval Korean History, Honam Studies, Historical Culture Design, kimbi36@jnu.ac.kr]
- Yong-Ui Kim, Ph.D.
  [Professor, Japanese Culture, yukim@jnu.ac.kr]
- Eun-Jung Kim, Ph.D.
  [Professor, Traditional Clothes Culture kimej@jnu.ac.kr]
- Cheol-Woo Kim, Ph.D.
  [Professor, Craft, dogong63@hanmail.net]
- Mi-Sun Park, Ph.D.
  [Assistant Professor, History of the Joseon Dynasty Period, History of Rite Culture, erudite-pms@hanmail.net]
- Yong-Shik Lee, Ph.D.
  [Professor, Theory of Korean Music, yongshiklee@hanmail.net]
- Lan-Hee Jung, Ph.D.
  [Professor, Food Science, lhjung@jnu.ac.kr]
- Jin-Sun Cho, Ph.D.

[Professor, Northeast Asia Archaeology, jojs@chonnam.ac.kr]
• Yu-Jun Choi, Ph.D.
[Professor, Local Culture, hoggenug@jnu.ac.kr]
• Seung-Hoon Han, Ph.D.
[Professor, Korean Traditional Architecture, Architectural Planning & Design, hshoon@jnu.ac.kr]

Interdisciplinary Program of Information Security Convergence

Contact Information
Phone: +82-62-530-3714
E-mail: cp00418@jnu.ac.kr
URL: cs.jnu.ac.kr

■ Graduate Studies in Department of Information Security Convergence

The Department of Information Security Convergence has a vision of fostering convergence security talents who can research and implement security requirements for each convergence industry.

Our educational goals are: The goal of the educational aspect is to develop essential subjects for learning core security technologies in the ICT convergence industry, and to design an intensified curriculum for majors to acquire specialized security technologies for products and services.

In terms of research, it is to strengthen ICT convergence security research capabilities based on the convergence industry and to provide customized research capabilities through reflection for industrial coefficients.

In addition, our educational goal is to promote international exchange by fostering experts in convergence ICT field practice type convergence security.

Our major competencies include practical expertise through the ability to provide practically applicable technologies based on core security technologies, such as vulnerability checks and security measures.

The second is consilient problem-solving ability, which is the ability to solve problems and propose alternatives through the application of convergence security technology, not fragmentary problem-solving.

Finally, the third is creative development ability, which is the ability to develop new technologies by leading and utilizing convergence security technologies from new and diverse perspectives.

In the world now, with the advent of the large-scale digital market of the 4th industrial era, the door to infinite possibilities in the field of cyber security has opened. In the Department of Information Security Convergence, you will design your future and move beyond employment to a larger global stage and prepare a foothold as a member of society leading the digital era.

■ Degree Requirements

To complete the master's degree program, students must earn at least 24 credits in their major courses. (Including 15 credits of Information Security Convergence Department curriculum)

Doctoral applicants must acquire at least 36 credits in major courses (including 24 credits in information security convergence department curriculum)

In addition, for the integrated master's and doctoral course, students must acquire at least 54 credits in their major courses. (Including 39 credits of Information Security Convergence Department curriculum)

Graduate students must pass or be exempted from the comprehensive exam and foreign language exam, and must complete the research performance score in order to receive the thesis review for graduation.

The master's program graduate must earn at least one research performance point. The doctoral course and the combined master's and doctoral course must acquire a research performance score of 4 or higher.

Candidates who satisfy all of the above conditions can receive thesis review, and thesis review candidates must make a public presentation on the thesis topic at the system security conference held every semester. Candidates for review must submit evidence of research achievements prior to the final dissertation review.

■ What Do You Study?

Advanced Database System
Advanced Distributed System
Graph Theory
Machine Learning
Applied Machine Learning for Cybersecurity
Technical Writing
Network Cyber Security
Network Programming
Introduction To Data Mining
Topics in Data Mining
Digital forensics
Topics in Deep Learning
Ransomware Virus Research
Software Analysis Techniques for Security
Cyber Security Assessment Methodology
Security Protocol
Distributed Object System
Distributed Application System
Distributed AI System
IoT Security
Practice of Cyber Terror Responses
Automation of Industrial Process
Industrial Control System Cyber Security
Topics in Context Inferencing
Performance Evaluation
Sensor Networks
Sensor Data Analysis
Sensor Interfacing
Topics in Software Engineering
SmartGrid
SmartGrid System Security
System Cyber Security
Renewable Energy Systems
Real Time System
Cryptography and Access Control
Application Cyber Security
Introduction of Energy ICT
Research Training 1
Research Training 2
Image Processing Applications
Image Analysis
Web Engineering
Topics on Web Mining
Ubiquitous Computing
Topics in applied abstract algebra
Mobile IP
Topics in Mobile Computing
Topics in discrete mathematics
Topics in Artificial Intelligence
Internet Security
Internet Protocols
Embedded program
Automatic Measurement System
SmartGrid Data Analysis
Power Communication Network
Advanced Power Communication Networks
Power Communication Ststems
Advanced Power Communication Systems

Power Communication Theory
Advanced Power Communications
Power IT Engineering
Information Hiding Theory
Information and Communication Security
Information Security Management
Industry-Academic field Project with Information Security
Information Security Seminar
Information Security System
Cyber Security Consulting
Information Security Project
Information Protection System policy design
Information System Security Policy
Advanced Information Theory
Number Theory
Topic in Intelligent Systems
Cyber Security for intelligent Control System
Topics in Computer Networks
Computer Security
Computer and Artificial Intelligence
Cloud Computing Security
Client Server System
Types and Programming Languages
Transaction Processing Systems
Pattern Recognition
Topics in Pattern Recognition
Principles of Programming Language
Methodologies for Development of Program
Project Management
Project Management
FinTech Security
Probability Theory(I)
Cyber Security of DCS &Digital Control System
Social Network Service and Cyber Ethics
TCP/IP

■ Professors

- Ieck-Chae Euom, Ph.D.
  [Professor, Data Driven Security, Privacy Security, ICS-OT, iceuom@jnu.ac.kr]
- Sang-Joon Lee, Ph.D.
  [Professor, MIS, Digital Service, AI, BigData, Blockchain, Metaverse, s-lee@jnu.ac.kr]
- Soo-Hyung Kim, Ph.D.
  [Professor, AI, shkim@jnu.ac.kr]
- Deok-Jai Choi, Ph.D.
  [Professor, Computer Network, dchoi@jnu.ac.kr]
- Hyuk-Ro Park, Ph.D.
  [Professor, Information Search, hyukro@jnu.ac.kr]
- Hyung-Jeong Yang, Ph.D.
  [Professor, Application Software, hjyang@jnu.ac.kr]
- Yong-Min Kim, Ph.D
  [Professor, Information Security, Convergence Security, e-commerce system, ymkim@jnu.ac.kr]
- Dong-Kook Kim, Ph.D
  [Professor, Artificial intelligence and signal processing, dkim@jnu.ac.kr]
- Kyung-Baek Kim, Ph.D.
  [Professor, Intelligent Distributed System, Big Data Platform, SDN/NFV, kyungbaekkim@jnu.ac.kr]
- Kwang-Hoon Choi, Ph.D.
  [Professor, Programming language, Compiler, Software Engineering, kwanghoon.choi@jnu.ac.kr]
- Seung-Won Kim, Ph.D.
  [Professor, Augmented/Virtual Reality Lab, Seungwon.Kim@jnu.ac.kr]
- Tae-June Park, Ph.D.
  [Professor, Information Security, Network, taejune.park@jnu.ac.kr]
- Tai-Won Um, Ph.D.
  [Professor, IoT Data Analysis, Trust Information Management, Cyber Physical System, stwum@jnu.ac.kr]

Interdisciplinary Program of Photonics Engineering

Contact Information
Phone: +82-62-530-1711
Fax: +82-62-530-1699
E-mail: kye7@jnu.ac.kr
URL: http://mse.jnu.ac.kr/

■ Graduate Studies in Photonics Engineering

The Interdisciplinary Program of Photonics Engineering offers opportunities to perform basic and applied research at the frontier of optical communications and networking, optoelectronic semiconductor devices, and harnessing solar energy. Faculty members from Department of Materials Science and Engineering, Applied Chemical Engineering, Chemistry, and Physics constitute the interdisciplinary program.

■ Degree Requirements

Master's Program

Master's degree candidates are required to earn 24 credits minimum, to pass the foreign-language and qualifying examination, and to prepare a thesis evaluated by a 3 member committee.

Ph.D. Program

Students are required to earn at least 36 credits and pass the foreign-language and qualifying examination for the thesis submission. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to Photonic Science and Engineering.

■ What Do You Study?

Applied Optics Ⅰ/Ⅱ
Advanced Course of Inorganic Materials For Special Use
Advanced Course of Instrumental Analysis
Advanced Course Of Polymer Chemistry
Advanced Electronic Materials
Advanced Instrumental Analysis
Advanced Photocatalyst
Advanced Photonic crystals
Advanced Polymer Physics
Advanced Solid State Physics
Advanced Solid Thermodynamics
Amorphous Photonic Materials
Display Engineering
Electrochemistry
Electromagnetic Engineering
Electronic Materials
Experiments for Optical Materials Fabrication Process
Functional Polymer Materials
Laser Engineering
Laser Materials Processing
Low Temperature Plasma Process
Mechanical Properties of Thin Films

Microfabrification of polymers
Nanocarbon Engineering
Nanotechnology Engineering
Optical Communication System
Optical Fiber Theory
Optical Materials
Optical Materials Fabrication Process & Characterization
Optical Polymers
Optical Sensor Engineering
Optical Telecommunication Experiments
Optical Telecommunication Devices
Optical Thin Film Fabrication Process
Optics Experiments
Opto-Electronics
Organic Conductive Materials
Organic Electronic Materials
Photoelectrochemistry
Photofunctional Polymers
Physical Chemistry of Polymers
Plasma Processing of Materials
Plastic Optical Fibers
Polymer Optical Devices
Polymers for Electronics and Photonics
Quantum Mechanics
Research Guidance 1/2/3
Research Training 1/2
Semiconductor Device Physics
Semiconductor Materials and Processing
Semiconductor Physics
Semiconductor process design
Sensor Materials and Devices
Special topics in optic & electronic materials
Strengthening and Fracture of Materials
Theory and Practice of Electron Microscopy
Thin Film Fabrication Process

■ Professors

• Jin-Hyeok Kim, jinhyeok@jnu.ac.kr
[Photonic Electronic Thin Film Growth & Characterization]
• Do-Heyoung Kim, kdhh@jnu.ac.kr
[Metal Organic Chemical Vapor Deposition]
• Hyun-Yong Lee, hyleee@jnu.ac.kr
[Photonic Materials & Devices]
• June Key Lee, junekey@jnu.ac.kr
[Semiconductor Process Design]
• Sang Wan Ryu, sangwan@jnu.ac.kr
[Semiconductor Physics]
• Jun-Seok Ha, jsha@jnu.ac.kr
[Nano Photonic Devices]
• Jong-Hoon Han, jhhan@jnu.ac.kr
[Nano Carbon Convergence Materials]
• Chang-Kook Hong, hongck@jnu.ac.kr
[Solar Cells, Energy Engineering, Polymer Materials]
• Soon-Hyung Kang, skang@jnu.ac.kr
[Analytical Chemistry]
• Jaeyeong Heo, jheo@jnu.ac.kr
[Nanodevices and Materials for Energy]
• Joong Wook Lee, leejujc@jnu.ac.kr
[Terahertz Photonics]
• Eun-Mi Han, emhan@jnu.ac.kr
[Opto-electronic Materials]
• Yung Ho Kahng, yhkahng@jnu.ac.kr
[Emerging Materials Devices]
• Seokho Cho, jsh818@jnu.ac.kr
[Wearable Electronics]
• Moo Sung Lee, moosung@jnu.ac.kr
[Polymer Hybrid Materials Lab]
• Yeongho Kim, ykim2023@jnu.ac.kr
[Next-generation Semiconductor]
• Kootak Hong, kthong@jnu.ac.kr
[Advanced Electronic Materials and Devices]

■ Laboratories

- Photo and Electrochemical Energy Room
- Chemical Process Lab
- Photonics oriented leading study Lab
- Photonic and Electronic Thin Film Lab
- Nano Photonics Lab
- Semiconductor Process Design Lab
- Terahertz Photonics Lab
- Photonic Materials & Devices Lab
- Nano Photonic Devices Lab
- Nanocarbon Convergence Materials Lab
- Nanodevices and Materials for Energy Lab
- Polymer Energy Materials Lab
- Opto-electric device lab
- Emerging Materials & Devices Lab
- Wearable Electronics and Smart Textile Lab
- Polymer Hybrid Materials Lab
- Next-generation Semiconductor Lab
- Advanced Electronic Materials and Devices Lab

Interdisciplinary Program of Software

Contact Information
Phone: +82-62-530-3420
E-mail: kimmin1210@jnu.ac.kr
URL: http://sw.jnu.ac.kr

■ Graduate Studies in the Interdisciplinary Program of Software

The goal of the Interdisciplinary Program of Software is to cultivate skills to accept cutting-edge information and communication paradigms such as distributed computing networking, next-generation Internet, and multimedia content development, and to train software development and maintenance personnel with practical skills in each field of society.

■ Degree Requirements

The graduation credits for the master's program are 24 credits, of which 12 credits must be taken from courses offered in the department of Interdisciplinary Program of Software. The graduation credits for the master's program are 36 credits, of which 18 credits must be taken from courses offered in the department of Interdisciplinary Program of Software.

■ What Do You Study?

3D Multimedia
Abnormal Detection
Advanced Big Data Analysis
Advanced Distributed System
Advanced Material Flow Management
Advanced Statistical Quality Control
Advanced Visual Programming
ARVR
Bioinformatics
Bio-Mechatronics
Component based Software Engineering
Computer and Network Security
Computer Integrated Manufacturing
Cybersecurity Trends
Data Mining
Deep Learning
Digital Video Processing
Distributed AI System
Distributed Object System
E-commerce System Design and Constrution
Edge Computing
Energy Artificial Intelligence
Foundations of Multimedia
Graph Theory
High Speed Networks
Information Retrieval
Intelligent Database System
Internet-based Client/server System Design and Construction
machine learning
Management Information System Analysis
Management Strategic and Information
Multimedia Communication and Applications
Network Programming
Object-Oriented Development Method Theory
Pattern Recognition Theory
Principles of Programming Language
Production Information System Design
Project Management
Quality Engineering and Application

Real Time System
Requirement Engineering
Robot Vision
Robotics
Shared Data Analysis
Simulations
SmartGrid
Software Development Method Theory
Software Development Project
Software Engineering Environment
Software Process
Software Quality Management
Software Reuse
Statistical Data Analysis Technique
Statistical Language Processing
Statistical Methods for Life Sciences
Survey Method
Theory of Computation
Theory of Statistical Inference
Topic in Intelligent Systems
Topics in Algorithm
Topics in Artificial Intelligence
Topics in Computer Networks
Topics in Database Design
Topics in Distributed Systems
Topics in Electronic Commerce
Topics in Multimedia
Topics in Pattern Recognition
Topics in Software Engineering
Topics in Time Series Analysis
Web DataBase
Web Programming

■ Professors

- Il Sang Ko, Ph.D.
  [Professor, MIS, isko@jnu.ac.kr]
- Kyung-baek Kim, Ph.D.
  [Professor, Distributed Network System, kyungbaekkim@jnu.ac.kr]
- Seung-won, Kim, Ph.D.
  [Assistant Professor, AR/VR, Seungwon.Kim@jnu.ac.kr]
- Soo-Hyung Kim, Ph.D.
  [Professor, Artificial Intelligence, shkim@jnu.ac.kr]
- Hyuk-Ro Park, Ph.D.
  [Professor, Information Retrieval, hyukro@jnu.ac.kr]
- Hyung-Jeong Yang, Ph.D.
  [Professor, Multimedia Data Mining, hjyang@jnu.ac.kr]
- Seok-bong, Yoo, Ph.D.
  [Associate Professor, Image Processing, Visual Intelligence, sbyoo@jnu.ac.kr]
- Hieyong Jeong, Ph.D.
  [Associate Professor, Human-Computer Interaction, Data Analysis, h.jeong@jnu.ac.kr]
- Yeong-jun, Cho, Ph.D.
  [Assistant Professor, Computer vision, yj.cho@jnu.ac.kr]
- Deok-jai Choi, Ph.D.
  [Professor, Advanced network, dchoi@jnu.ac.kr]

■ Laboratories

- Advanced Network Lab
- Augmented & Virtual Reality Lab
- Computer Vision Lab
- Distributed Network and Systems Lab
- Human-Media Lab
- Pattern Recognition Lab
- Smart Computing Lab
- Visual Intelligence Media Lab

Interdisciplinary Program of Urban Disaster Prevention Safety Engineering

Contact Information
Tel: +82-62-530-1650
Fax: +82-62-530-1659
E-mail: whiskey12@jnu.ac.kr
URL: http://udpse.jnu.ac.kr

■ Graduate Studies in Architectural Engineering

Develop the ability to solve all problems that may arise in the city, including urban planning, roads, traffic, landscaping, and the environment, in a complex manner in various fields based on engineering judgment skills, and study in academic fields such as urban planning and transportation engineering. The purpose is to contribute to the development of the local community by improving application capabilities in actual fields.

■ Degree Requirements

Master's Program

Master's degree candidates are required to earn 24 credits minimum, to pass the foreign-language and qualifying examination. Credits earned at domestic or foreign graduate schools (including research courses) prior to admission to graduate school may be recognized up to 9 credits for a master's program. The dissertation, which is examined by at least 3 committee members.

Ph.D. Program

Ph.D. candidates should have a master's degree. Students are required to earn at least 36 credits and pass the foreign-language and qualifying examination for the thesis submission. Credits earned at domestic or foreign graduate schools (including research courses) prior to admission to graduate school may be recognized up to 12 credits for a doctoral's program. The dissertation, which is examined by at least 5 committee members, but at least one of the doctoral program reviewers is external.

When submitting a requested thesis, at least one thesis must be published jointly with the advisor in a journal that is a candidate for academic registration or higher, and a printed copy must be submitted. However, one paper published in a journal of SCI level or higher is recognized as one paper published in a domestic academic journal candidate.

■ What Do You Study?

Advanced Transportation Engineering
Advanced Site Planning
Advanced Urban Planning
Advanced Study on Urban Renewal
Restoration Engineering of Urban
Research Guidance 1

Research Guidance 3
Theory of Disaster Management
Urban disaster prevention
Theory of Safety Management
Fundamental sof Disaster Prevention Regulations
Theory of Disaster Prevention
Theory of Disaster Humanities
Theory of Road Safety Management
Theory of Disaster Economics
Theory of Disaster Ethics
Theory of Disaster Psychology
Theory of Urban Disaster Prevention Administration
Theory of Urban Risk Analysis
Theory of Urban Disaster Prevention System Engineering
Disaster Prevention Safety Research Methodology
Disaster Statistics(Survey Methodology)
Theory of Disaster Safety in the 4th Industrial Revolution Era
Theory of Disaster Analysis
Corporate Disaster Mamagement
Earthquake disaster management
Theory of Disaster Psychology/Behavior Analysis
Natural disaster reduction technology
Theory of Disaster Prevention Policy
Theory of Crisis Management

■ Professors

• Tae-Jun Ha, Ph.D.
[Professor, Highway and Traffic Engineering, tjha@jnu.ac.kr]
• Jejin Park, Ph.D.
[Associate Professor, Road and Pavement Engineering, jinpark@jnu.ac.kr]
• Yong-uk, Ryu, Ph.D.
[Assustabt Professor, hydrology, yuryu@jnu.ac.kr]
• Kanghyeok Yang, Ph.D.
[Associate Professor, Construction Informatics, kyang@jnu.ac.kr]
• Eun-Il Kim, Ph.D.
[Professor, Environmental green space design, kyang@jnu.ac.kr]

■ Laboratories

- Traffic Engineering1 Lab.
- Traffic Engineering2 Lab.
- Hydraulic Engineering Lab.

Department of Applied Plant Science

Contact Information
Phone: +82-62-530-2050
Fax: +82-62-530-2059
E-mail: zzxcv0418@jnu.ac.kr
URL: http://agro.jnu.ac.kr

What is Applied Plant Science?

Applied Plant Science deals with scientific theories and applied techniques in plant production harmonized with nature and agro-ecosystems, which ultimately serve as the basis of the lives of human beings. Its goal is the clarification of the plant life phenomena from plant molecular levels to those of the community through understanding of heredity, environments, and their inter-relationships, in order to secure both the productivity and quality of crop plants.

Degree Requirements

Master's degree candidates are required to earn at least 24 credits. Ph.D. candidates are required to earn additional 36 credits.

Department of Applied Plant Science at Chonnam National University

The Department of Applied Plant Science educates students with an interest in agronomic crops. It conducts research and offers courses in the subjects of Crop Science, Agro-Ecology, Crop Breeding, Industrial/Medicinal Crops, Crop Physiology, and Plant Biotechnology. The Department has progressed into exciting new and nontraditional areas in recent years. Environmental concerns have redirected much of the emphasis on both teaching and research. Faculty members are involved in active research projects in crop production and ecology, genetic improvement of crops for environmental reclamation, best management practices, and developing advanced bio-techniques in industrial/medicinal crops. Agronomy is a blend of teaching and research in the basic and applied, traditional and nontraditional aspects of agriculture. Students with graduate degrees will have an opportunity to go on to rich and rewarding careers, being challenged to contribute to the world in which they live.

The Department of Applied Plant Science that houses the Agronomy Program, offers students hands-on training. Learning is enhanced by practical training in the campus fields and campus greenhouses as well as in the facilities at Naju. Faculty members who teach and supervise students are also devoted to meaningful scientific progresses, enabling students to participate in significant research projects in various areas of research.

■ What Do You Study?

Advanced Agricultural Meteorology (3)
Advanced Agricultural Ecology (3)
Advanced Agricultural Genetics (3)
Advanced Crop Breeding (3)
Advanced Crop Ecology (3)
Advanced Crop Molecular Breeding (3)
Advanced Crop Physiology (3)
Advanced Crop Production (3)
Advanced Crop Stress Physiology (3)
Advanced Environmental Vegetation Management (3)
Advanced Industrial Crop Science (3)
Advanced Medicinal Plant (3)
Advanced Molecular Biology (3)
Advanced Plant Genetic Engineering (3)
Advanced Plant Tissue Culture (3)
Advanced Rice Culture (3)
Advanced Upland Crop Science (3)
Arableland Ecology (3)
Bio-metrical Breeding (3)
Crop Seed Physiology (3)
Experimental Design (3)
Metabolism in Crop Plant (3)
Metabolism of Natural Products (3)
Plant Breeding for Unfavorable Environment (3)
Plant Cell Engineering (3)
Plant Growth Regulation (3)
Plant Physiological Genetics (3)
Plant-water Relationships (3)
Production of Functional Materials in Plants (3)
Research Guidance 1 (3)
Research Guidance 2 (3)
Research Guidance 3 (3)
Research Training 1 (3)
Research Training 2 (6)
Seminar in Crop Breeding (3)
Seminar in Crop Environment (3)
Seminar in Crop Growth and Development (3)
Seminar in Rice Culture (3)
Seminar in Seed Production (3)
Special Studies in Crop Ecology (3)
Special Studies in Crop Science (3)
Special Topics to Crop Physiology (3)
Specific Topics in weed Science (3)

■ Professors

- Han-Yong Kim, Ph.D.
  [Rice Crop Science, Principles of Crop Cultivation, Agricultural meteorology, hyk1020@jnu.ac.kr]
- Jonghan Ko, Ph.D.
  [Crop Ecology, Agricultural Remote Sensing, Crop Growth Modeling, jonghan.ko@jnu.ac.kr]
- Ok Ran Lee, Ph.D.
  [Special Crop Science, Secondary Metabolite Biosynthesis and Transport, Plant Growth and Development, mpizlee@jnu.ac.kr]
- Bo-Keun Ha, Ph.D.
  [Crop Genetices & Breeding, bkha@jnu.ac.kr]
- Jaeil Cho, Ph.D.
  [Climatological Crop Physiology, chojaeil@chonnam.ac.kr]

■ Laboratories

- Rice Crop Science Lab
- Crop Environmental Ecology Lab
- Special Crop Science Lab
- Crop Breeding Lab
- Climatological Crop Physiology Lab

Department of Horticulture

Contact Information
Phone: +82-62-530-2060
Fax: +82-62-530-2069
E-mail: yohong@jnu.ac.kr
URL: http://hort.jnu.ac.kr/

■ Graduate Studies in Department of Horticulture

Laboratories in the Department of Horticulture provide an opportunity for students to learn knowledge and technology required to be a horticultural specialist in the horticulture industry. The main areas of research are greenhouse horticulture, floriculture, pomology, plant propagation, plant breeding and plant physiology. The combination of theories and practical training enables students to experience advanced and applied technologies prevalent in the horticulture industry.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits.

■ What Do You Study?

Major Courses

Advanced agro-healing (3)
Advanced Floriculture (3)
Advanced General Genetics (3)
Advanced Greenhouse Horticulture (3)
Advanced Horticultural Crop Breeding (3)
Advanced Horticultural Field Crops (3)
Advanced horticulture science (3)
Advanced landscape and management of floricultural plant (3)
Advanced Molecular Breeding of Horticultural crops (3)
Advanced Nutrition (3)
Advanced Plant Physiological Ecology (3)
Advanced Plant Tissue Culture (3)
Advanced Postharvest Physiology of Horticultural Crops (3)
Advanced quality management of floricultural plant (3)
Advanced Seed Sciences and Technology (3)
Advanced Technology for hydroponic culture (3)
Advanced Vegetable Crops (3)
Crop Growth Modeling in Greenhouse Crops (3)
Global Trend in GMO technology and market (3)
Grapes and Wine Science (3)
Greenhouse Climate Control (3)
Horticultural Industry Field trip (3)
Horticultural Production System (3)
Horticultural Therapy (3)
Introductory Cource of Flower Breedomics (3)
Introductory Course about Risk Assessment of GMOs (3)
Methodology of Molecular Marker Developmen (3)
Organic Horticulture (3)
Physiology of Environmental Stress in Horticultural Crops (3)
Plant Factory system (3)
Plant Functional Compound Sciences (3)
Plant Metabolomics (3)
Plant Propagation (3)
Plant Resources (3)
Presentation tips and writing skills (3)

Propagation of floricultural plant (3)
Research Guidance 1 (3)
Research Guidance 2 (3)
Research Guidance 3 (3)
Research Training 1 (3)
Research Training 2 (6)
Seed production of F1 hybrid varieties (3)
Small Fruit Production (3)
Special Topics in Applied Ornamentals (3)
Special Topics in Horticultural Statistics (3)
Special Topics in Plant Physiology (3)
Tropical Fruit Science (3)

■ Professors

- Tae-Ho Han, Ph.D.
  [Ornamental Plant Science,
  hanth@jnu.ac.kr,
  +82-62-530-2066]
- Jeong-Hyun Lee, Ph.D.
  [Greenhouse Horticulture,
  leetag@jnu.ac.kr,
  +82-62-530-2064]
- Sung-Gil Kim, Ph.D.
  [Horticultural Crop Breeding & Genetics,
  dronion@jnu.ac.kr,
  +82-62-530-2061]
- SangHyeon Lee, Ph.D.
  [Pomology & Reproduction,
  pear@jnu.ac.kr,
  +82-62-530-2067]
- Kang-Mo Ku, Ph.D.
  [Horticultural Crop Physiology,
  ku9@jnu.ac.kr,
  +82-62-530-2065]
- Young Boon Lee, Ph.D.
  [Horticultural Corp Quality Managements,
  dudqns2@jnu.ac.kr
  +82-62-530-2062]

■ Laboratories

This Lab meets the demands of horticultural specialists and students in ornamental and pomological areas. Among the research conducted is in regards to eco-physiological mechanisms of individual responses for the adaptive and ecological capacity of any given plant population. Plant breeding theories and basic laboratory principles are also taught.

Department of Applied Biology

Contact Information
Phone: +82-62-530-2070
Fax: +82-62-530-2079
E-mail: yckimyc@jnu.ac.kr
URL: http://agribio.jnu.ac.kr/

■ Graduate Studies in Department of Applied Biology

The Department of Applied Biology at Jeonnam National University is composed of 3 main fields: Plant Pathology, Entomology, and Stress Biology. The educational goal at Department of Applied Biology is to foster professional individuals who learn both basic and applied sciences on plant response to pathogens, agricultural pests, and environmental stresses that significantly diminish plant and crop productivity.

Plant Pathology field focuses mainly on plant-pathogen (bacteria, fungi, virus) interactions, molecular genetics to understand mechanisms and biological control of plant diseases, and ecology and evolutionary biology of plant-associated microbes. Entomology field focuses mainly on the damage analysis and integrated pest management by the fundamental studies of classification, phylogeny, chitin biotechnology, and ecology of insect pests. Interactions between microbial natural enemy and insect pests are also studied for the eventual biological control of agricultural insect pests. Stress Biology field focuses mainly on the identification and determination of potential genes involved in plant responses to environmental stresses (drought, high and low temperatures, salt, UV), which would provide novel means to develop stress-tolerant agronomic crops.

The Department's curricula cover all necessary subjects for basic and applied sciences. We will educate students with a vision of becoming leading scientists in future agriculture.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits.

■ What Do You Study?

General Courses

Advanced Scientific Communication and Writing
Scientific Papers (3)

Major Courses

Microbial Genetics (3)
Advanced Plant Virology (3)
Biological Control Of Plant Pathogens (3)
Biological Control of Insect Pest (3)
Insect Natural Enemy (3)
Plant Molecular Biology (3)
Plant Pathogenic Bacteriology (3)
Physiological Plant Pathology (3)
Advanced Plant Environmental Stress (3)
Nucleic Acid Biochemistry (3)
Protein Biochemistry (3)
Plant Functional Genomics (3)
Plant Nematology (3)
Fungal Diseases of Plants (3)

Plant Growth Regulator (3)
Advanced plant molecular biotechnology (3)
Insect Molecular Genetics (3)
Insect Molecular Systematics (3)
Microbial genetics (3)
Molecular Biology Lab. (3)
Insect Immunology (3)
Insect Protein Purification (3)
Plant Biochemistry (3)
Research Techniques in Plant Pathology (3)
Diagnosis of Plant Diseases (3)
Insect Molecular Ecology (3)
Biological Statistics and Field Experiment (3)
Plant Disease Control (3)
Disease of Crop Plants (3)
Plant Pathology Lab. (3)
Advanced Molecular Plant Pathology (3)
Seminar in Plant Pathology (3)
Vector Biology (3)
Insect Molecular Physiology (3)
Insect Integument Biology (3)
Gene Sliencing and Functional Genomics in Insect Integrated Pest Management (3)
Plant Volatile Compound and Natural Enemy Biology (3)
Advanced Industrial Entomology (3)
Advanced Insect Biochemistry and Molecular Biology (3)
Crop Protection Colloquium (3)
Crop Protection and Plant Quarantine Seminar (3)
Advanced Crop Production and Management (3)
Research Guidance 1 (3)
Research Guidance 2 (3)
Research Guidance 3 (3)
Plant Disease Epidermiology (3)
Advances in Insect Molecular Diagnosis (3)
Methods in Plant Pathology (3)
Advanced Plant Microbe Interactions (3)

■ Professors

- Young-Cheol Kim, Ph.D. [Plant Pathology, yckimyc@jnu.ac.kr]
- Hun-Seung Kang, Ph.D. [Plant Molecular Biology, hskang@jnu.ac.kr]
- Yeon-Soo Han, Ph.D. [Insect Pathology, hanys@jnu.ac.kr]
- Cheol-Soo Kim, Ph.D. [Plant Functional Genomics, cskim626@jnu.ac.kr]
- Kwang-Yeol Yang, Ph.D. [Molecular Plant Pathology, kyyang@jnu.ac.kr]
- Iksoo Kim, Ph.D. [Insect Molecular Phylogenetics and Ecology, ikkim81@jnu.ac.kr]
- Yasuyuki Arakane, Ph.D. [Insect Chitin Biothecnology, Yasuyuki Arakane@jnu.ac.kr]
- Rae-Dong Jeong, Ph.D. [Plant Virology, jraed2@jnu.ac.kr]

■ Laboratories

- Plant Pathology Lab
- Plant Molecular Biology Lab
- Insect Pathology Lab
- Plant Molecular Biology Lab

• Plant Functional Genomics Lab
• Insect Molecular Phylogenetics and Ecology Lab
• Insect Chitin Biothecnology Lab
• Plant Virology Lab

Department of Forestry

Contact Information
Phone: +82-62-530-2080
Fax: +82-62-530-2089
URL: http://forestry.jnu.ac.kr

■ Graduate Studies in Forestry

Forests occupy 65% of the land area in Korea. The mission of the Department of Forestry is to educate and engage the next generation of scholars, practitioners, and users of forests, to conduct distinctive problem-solving and fundamental research on the nature and use of forests and related resources, and to share discoveries and knowledge with others. The Department of Forestry is committed to enhancing understanding, effective management, and sustainable use of forests to support the national economy and public welfare, and to conserve the forest ecosystem.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits and achieve a grade point average of 3.0 (based on a 4.5 scale). Students will normally take 2 years to complete a Master's Program, during which they must pass a comprehensive exam in 3 subjects and a foreign language exam (English). Master's theses may be submitted in English or Korean. Ph.D. Candidates are required to earn 36 credits and achieve a grade point average of 3.0 (based on a 4.5 scale). Students will normally take a minimum of 3 years to complete a Ph.D. program, during which they must pass a comprehensive exam in 4 fields and a foreign language exam (English). Ph.D. theses may be submitted in English or Korean.

■ What Do You Study?

Advanced Economic Plants (3)
Advanced Mycorrhizae (3)
Computer Science of Agriculture (3)
Advanced Erosion Control (3)
Advanced Forest Management (3)
Advanced Forest Measurement (3)
Advanced Forest Entomology (3)
Advanced Forest Protection (3)
Advanced Forest Ecology (3)
Advanced Forest Plant Systematics (3)
Advanced Seed Science of Forest Plant (3)
Advanced Forest Genetics (3)
Advanced Forest Policy (3)
Advanced Forest Soils (3)
Advanced Forest Valuation (3)
Advanced Dendrology (3)
Experimental Design (3)
Advanced Forest Economics (3)
Advanced Silviculture (3)
Regression Analysis (3)
Animal Population Ecology (3)
Advanced Tree Pathology (3)
Seminar in Forestry (3)
Advanced Administration (3)
Advanced Tree Physiology (3)
Advanced Urban Forestry (3)

Advanced Forest Civil Engineering (3)
Advanced Forest Zoology (3)
Advanced Biochemistry (3)
Seminar in Forest Policy (3)
Advanced Forest Cooperatives (3)
Advanced Global Forestry (3)
Advanced Law of Forest Environment (3)
Advanced Mycology (3)
Advanced Mushroom Cultivation (3)
Advanced Geographical Information Systems (3)
Advanced Landscape Planning (3)
Forest Influences (3)
Ecotourism (3)
Forest Hydrology and Watershed Management (3)
Advanced Warm-temperate Forests Tending (3)
Forest Soil Conservation (3)
Forest Recreation Planning and Management (3)
Research for the Master's or Doctoral Degree (3)

■ Professors

- Ki-Wan An, Ph.D.
  [Professor, Forest Policy,
  kiwan@jnu.ac.kr, 062-530-2085]
- Kye-Han Lee, Ph.D.
  [Professor, Forest Ecology,
  khl@jnu.ac.kr, 062-530-2087]
- Young-Sang Ahn, Ph.D.
  [Associate Professor.
  Forest Environment Conservation Engineering,
  ysahn@jnu.ac.kr, 062-530-2081]
- Mi-Young Noh, Ph.D.
  [Assistant professor, Forest Protection,
  annemi@jnu.ac.kr, 062-530-2083]
- Hyun-Jun Kim, Ph.D.
  [Assistant professor, Silviculture,
  hjkim0837@jnu.ac.kr, 062-530-2082]

■ Laboratories

Forest Policy Lab

Research is carried out on forest resource management, related policies, planning of forest village development, usage pattern of recreation forests, and development of forest cooperatives.

Forest Ecology Lab

Research is carried out on soil carbon inventory, soil-plant available water, and forest water budgets. Other research areas include Riparian Forest Buffer, Agro-forestry, and Urban forestry.

Forest Environment Conservation Engineering Lab

Our laboratory goal is to elucidate the forest landscape functions as major environmental resources of forest biosphere with integration of natural and social scientific base, to build theory for renovation of disturbed and ruined environment to develop practical technologies.

Department of Wood Science and Engineering

Contact Information
Phone: +82-62-530-2090
Fax: +82-62-530-2099
URL: http://wood.jnu.ac.kr

Graduate Studies in the Department of Wood Science and Engineering

In an era that focuses on lowered carbon emission and environmentally friendly construction materials, the study of wood science is becoming increasingly important. Wood science and engineering is a comprehensive field that combines wood anatomy, chemistry, physics, mechanics and wood architecture disciplines for the study of resource development, education, research and training of talented individuals.

Our field is divided into wood engineering and wood chemistry subfields. The wood engineering field specializes in the study of processing, producing and mechanical analysis of wood resources for green construction. We provide the techniques and theories needed to analyze the physical and mechanical characteristics of lumber in order to evaluate its quality for market pricing. We also research different methods for utilizing wood.

The wood chemistry field studies the mechanism involved in the physical and chemical damage of lumber as well as the structure and composition of wood for the use of renewable energy production. Furthermore, we research and analyze wood composition and the industrial application of timber.

There are many different career paths available to our students after graduation. Work opportunities exist in various green industries involved in wood architecture, furniture, instruments and pulp production.

Degree Requirements

Students must complete 24 credits and submit a master's thesis in order to receive their degree.

What Do You Study?

History of Furniture (3)
Design of Wood Structure (3)
Advanced Wood Processing (3)
Advanced Wood Industry Management (3)
Advanced Wood Physics (3)
Advanced Wood Preservation (3)
Wood-Water Relationship (3)
Advanced Wood Anatomy (3)
Advanced Course of Composite Materials (3)
Electron Microscope in Wood Science (3)
Advanced Chemistry Of Wood (3)
Applied Mechanics of Wood & Wood-based Material (3)
Maintenance of Woody Cultural Properties (3)
Advanced in Bioenergy Science (3)
Furniture Design (3)
Musical Instruments Design (3)
Advanced plant and wood science Biotechnology (3)
Advanced Pulp and Paper Technology (3)
Advanced Pyrolysis of Wood (3)

Extractive chemistry (3)
Paper Processing, Packaging and Logistics (3)
Topics in Forest Microbiology (3)
Topics in Biorefinery (3)
Combustion of Forest Biomass (3)
Advanced Wood Mechanics (3)
Wood engineering (3)
Green Wood construction (3)
Academic writing in wood science (3)
Chemical Analysis of Wood (3)

■ Professors

• Hyoung-Woo Lee, Ph.D.
[Professor, Wood Processing and Machineries, hwlee@jnu.ac.kr]
• Jae-Won Lee, Ph.D.
[Professor, Wood Chemistry, Bioenergy, ljw43376@jnu.ac.kr]
• Gi-Young Jeong, Ph.D.
[Professor, Wood Engineering, gjeong1@jnu.ac.kr]
• Jongsik Kim, Ph.D.
[Wood Anatomy and Preservation, jongsik.kim@jnu.ac.kr]

■ Laboratories

- Wood Processing System Engineering Lab
(Phone: +82-62-530-2095)
- Wood Chemistry Lab
(Phone: +82-62-530-0289)
- Timber Engineering Lab
(Phone: +82-62-530-2107)
- Wood Anatomy Lab
(Phone: +82-62-530-2103)

Department of Agricultural Chemistry

Contact Information
Phone: +82-62-530-2130
Fax: +82-62-530-2139
E-mail: woojung@jnu.ac.kr
URL: http://agrochem.jnu.ac.kr/

■ Graduate Studies in Agricultural Chemistry

The Department of Agricultural Chemistry focuses on studies in chemical and biological applications to agricultural and environmental systems. The Department is composed of seven main Laboratories: Soil Science and Microbiology (Professor Kil-Yong Kim), Environmental Pesticide Science (Professor In Seon Kim), and Environmental Microbiology (Professor Hyang Bum Lee) and Plant Resources Science (Professor Woo Jin Jung), and Plant Growth Regulators Science (Professor Jin-Cheol Kim) and Biofertilizer (Professor Yeonjong Koo), and Agricultural Environment (Professor Eun Hea Jho).

■ Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn 60 credits including credits earned in a Master's Program. Students are allowed to transfer up to 9 credits into the master's program. Master's theses should be submitted by May or October of each year. Doctoral theses should be submitted by March or September.

Graduate students must achieve a grade of C or better for all courses, and earn a cumulative average of B or better to be awarded a degree. Candidates will be awarded a degree upon fulfilling all requirements, including the foreign language requirement, and submitting a thesis for approval. The foreign language and comprehensive examinations are held in August or February.

■ What Do You Study?

Advanced Course of Instrumental analysis (3)
Advanced Agricultural Environment Chemistry (3)
Advanced Analytical chemistry (3)
Molecular Cell Biology (3)
Advanced Fertilizers (3)
Advanced Pesticide Science (3)
Pestcide Residue Analytical Chemistry (3)
Biopolymer Chemistry (3)
Advanced Biotechnology (3)
Experimental Design (3)
Advanced Organic Chemistry (3)
Advanced Soil Microbiology (3)
Soil Biochemistry (3)
Soil Organic Matters (3)
Environmental Toxicology (3)
Advanced Enzyme Chemistry (3)
Pheromone Chemistry (3)
Advanced Industrial Microbiology (3)
Biochemistry of Plant Pathology (3)
Advanced Plant Growth Regulators (3)
Advanced Biochemistry (3)
Advanced Environmental Ecology (3)

Advanced Natural Material Science (3)
Seminar in Agricultural Chemistry 1 (3)
Seminar in Agricultural Chemistry 2 (3)
Advanced in Biological and Environmental Chemistry (3)
Advanced Environmentally-Friendly Agriculture (3)
Advanced Plant Resources Science (3)
Biopesticide Science (3)
Applied Plant Resources Science (3)
Environmental Soil Science (3)
Applied Envionment Agriculture Science (3)
Mycotoxicology (3)
Advanced Plant Diseases (3)
Plant Nutrition Physiology (3)
Startup Bussiness of Agricultural Chemistry 1 (3)
Startup Bussiness of Agricultural Chemistry 2 (3)

■ Professors

- Kil-Yong Kim, Ph.D.
  [Professor, Soil Microbiology, kimkil@jnu.ac.kr]
- In Seon Kim, Ph.D.
  [Professor, Environmental Pesticide Science, mindzero@jnu.ac.kr]
- Hyang Burm Lee, Ph.D.
  [Professor, Environmental Microbiology, hblee@jnu.ac.kr]
- Woo Jin Jung , Ph.D.
  [Professor, Plant Resources Science, woojung@jnu.ac.kr]
- Jin-Cheol Kim, Ph.D.
  [Professor, Plant Growth Regulators Science, kjinc@jnu.ac.kr]
- Yeonjong Koo, Ph.D.
  [Associate Professor, Biofertilizer, yeonjong@jnu.ac.kr]
- Eun Hea Jho, Ph.D.
  [Associate Professor, Agricultural Environment, ejho001@jnu.ac.kr]

■ Laboratories

- Soil Microbiology Lab
  (Phone: +82-62-530-2138)
- Plant Growth Regulators Science Lab
  (Phone: +82-62-530-2132)
- Plant Resource Science Lab
  (Phone: +82-62-530-3960)
- Environmental Pesticide Science Lab
  (Phone: +82-62-530-2131)
- Environmental Microbiology Lab
  (Phone: +82-62-530-2136)
- Biofertilizer Lab
  (Phone: +82-62-530-2133)
- Environmental & Ecological Systems Lab
  (Phone: +82-62-530-2134)

Department of Animal Science and Biotechnology

Contact Information
Tel: +82-62-530-2120
Fax: +82-62-530-2129
E-mail: A1730@jnu.ac.kr
URL: https://animalscience.jnu.ac.kr/

Graduate Studies in Animal Science and Biotechnology

The graduate program in Animal Science and Biotechnology is designed to provide training at the master's degree level for those who wish to continue graduate work at the doctoral levels and for those who wish to seek employment in various fields in the animal industry. The major areas include animal breeding, reproduction, transgenic animals and molecular biochemistry. The program focuses on the development of transgenic animals using biotechnological tools. In addition, the division also emphasizes the research work on the screening of functional ingredients from animal resources by molecular biological and microbiological tools and applies these to animal derived foods such as meat and dairy products.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits.

What Do You Study?

Advanced Animal Biotechnology (3)
Advanced Animal Biotechemistry (3)
Advanced Tissue Culture (3)
Advanced Molecular Genetics (3)
Advancede Cell Biology (3)
Advanced Livestock Management and Economics (3)
Advanced Animal Molecular Biology (3)
Research Method of Animal Molecular Cell Biology (3)
Advanced Transgenic Animal (3)
Population Genetics in Animal Breeding (3)
Advanced Animal Breeding (3)
Research Methods in Animal Reprodution (3)
Reprodutive Failure in Animal (3)
Controlled Breeding in Animal (3)
Advanced Reprodutive Physiology in Animal (3)
Advanced In Vitro Fertilization (3)
Distributed Component Specialism (3)
Experimental design special theory (3)
Animal quantitative genetics (3)
Animal cell signalling (3)
Advanced Animal Molecular Biochemistry (3)
Advanced Animal Food Analysis (3)
Gene targeting (3)
Advanced Embryo Technology in Animal (3)
Evaluation of Functional Food of Animal Resources (3)
Advanced Muscle Food Science and Biotechnology (3)
Advanced Muscle Food Analysis and Technology (3)
Advanced Functional Ingredients of Muscle Foods (3)
Soluble protein (3)
Biological application statistics (3)
Animal experimental design (3)
Method for evaluating the genetic ability of animals (3)
Individual Model Analysis Method (3)
Special Theory of Functional Components Analysis (3)
An animal engineering seminar (3)
Linear Model Specialism (3)
Advenced Poultry Sciecnces (3)
Advenced Animal Selection Methods (3)
Master guide laboratory animal practice (3)
Animal Pedigree Analysis (3)

Advanced animal immunology (3)
Topics in Animal Transcriptomic analysis (3)
Advanced animal functional genomics (3)
Animal Breeding Scheme (3)
Animal metabolic physiology (3)

Professors

- Kang, Man-Jong, Ph.D.
  [Transgenic Animals,
  mjkang@chonnam.ac.kr]
- Lee, Ji-Woong, Ph.D.
  [Animal Breeding and Genetics,
  jwlee@jnu.ac.kr]
- Kim, Sung-hak, Ph.D.
  [Molecular Biochemistry,
  sunghakkim@jnu.ac.kr]

Department of Animal Science and Bioindustry

Contact Information
Tel: +82-62-530-2120
Fax: +82-62-530-2129
E-mail: A1731@jnu.ac.kr
URL: https://animalscience.jnu.ac.kr/

Graduate Studies in Animal Science and Bio-Industry

Graduate programs leading to the Master of Science degree in either Animal Science or Dairy Science are offered in the general area of livestock production including dairy foods. Courses in the department such as animal physiology, ruminant nutrition, animal production, meat science, dairy microbiology, grassland science and statistics are basically provided. The courses of relevant departments provide in-depth training and laboratory works. These programs are flexible enough to interest students who may want to consider the master's degree as a terminal and practical degree. They are also designed to accommodate those graduates who want to use the master's degree as a preparatory step towards the doctoral degree.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits.

What Do You Study?

Dry and Concentrated Dairy Products (3)
Advanced Genetics of Dairy Microbiology (3)
Advanced Dairy Microbiology (3)
Advanced Animal Endo- crinology (3)
Advanced Animal Physiology (3)
Growth and Development of Pasture Plants (3)
Advanced Utilization of Pasture Plants (3)
Engineering of Fermented Milk (3)
Advanced Milk Processing (3)
Advanced Quality Control of Dairy Product (3)
Dairy Chemistry and Physics (3)
Advanced Pasture Mana- gement (3)
Grassland Ecology and Productivity (3)
Advanced Animal Wastes Management (3)
Advanced Turf Grass Science (3)
Metabolic Physiology of Pasture Plants (3)
Advanced Meat Processing (3)
Advanced Meat Hygiene (3)
Advanced Quality Control of Animal Foods (3)
Nutriqinomics and proteomics (3)
Manipulated Animal Nutrition (3)
Animal nutrient requirements (3)
Hygiene of Milk & Dairy Products (3)
Functional Probiotics (3)
Advance in Animal Microbial Technology (3)
Hazard Analysis Critical Control Point System of Animal-Origin Food (3)
Foodborne Pathogens of Animal Resources (3)
Advanced Animal Feeding and Nutrition (3)
Methodology in Animal Feeding and Nutrition (3)
Advanced Swine Production (3)
Sustainable Livestock Production (3)
Advanced Animal management (3)

Experimental Design and Statisical Analysis (3)
Advanced Meat Science (3)
Rumen Microbiology (3)
Advanced Feed Science (3)
Advanced Gastrointestinal Microbiology in Animal (3)
Advanced Animal Nutrition (3)
Evaluation of Functional Food of Animal Resources (3)
Advance Beef Cattle Production (3)
Animal Welfare Topics (3)
Advanced Muscle Food Science and Biotechnology (3)
Advanced Muscle Food Analysis and Technology (3)
Advanced Functional Ingredients of Muscle Foods (3)
Advanced Animal Food Analysis (3)

Professors

- Sun, Sang-Soo, Ph.D.
  [Animal Physiology,
  ssun@chonnam.ac.kr]
- Kim, Tae-Hwan, Ph.D.
  [Forage Physiology & Biochemistry,
  grassl@chonnam.ac.kr
- Chin, Koo-Bok, Ph.D.
  [Meat Science,kbchin@chonnam.ac.kr]
- Oh, Se-Jong, Ph.D.
  [Animal Microbial Technosoh@chonnam.ac.kr]
- Jeon, Tea-Il, Ph.D.
  [Animal Metabolomics,
  tjeon@jnu.ac.kr]
- Kim, Min-seok, Ph.D.
  [Animal nutrition,
  mkim2276@jnu.ac.kr]
- Yun Jinhyeon, Ph.D.
  [Pig production,
  pilot9939@jnu.ac.kr]

Department of Rural and Biosystems Engineering

Contact Information
Phone: +82-62-530-2150
Fax: +82-62-530-2159
URL: http://rbe.jnu.ac.kr

■ Graduate Studies in the Department of Rural and Biosystems Engineering

The Department of Rural and Bio-systems Engineering, aim to build a climate-intelligent regional system that integrates regional infrastructure (design and construction), water environment (water management and non-point pollution control), and soil environment (soil qualtiy and carbon storage), atmospheric environment (fine dust and air pollution management), and policy/planning for sustainable agriculture to realize climate-smart agriculture . After graduating from the department, graduates can play a pivotal role in national and societies by taking jobs in national and regional government, public corperation (e.g., Korean Rural Community Corporation and K-Water), and research institute (e.g., National Institute of Agricultural Science, National Institute of Crop Science, National Institute of Animal Science, Rural Research Institute, and National Institute of Environmental Research). The graduate students in the department are financially supported by Brain Korea 21 Project of the Ministry of Education of Korean government.

Rural System Engineering Track

- Rural Environmental Water
- Environmental Soil Science
- Rural Infrastructure Engineering
- Rural Water Resources Engineering
- Agricultural Facilities and Environment

■ Degree Requirements

The master's degree requires students to complete advanced coursework, pass a foreign language proficiency test and preliminary qualifying exams, and become accustomed to research methodologies. Students are required to plan, conduct, and analyze a comprehensive research project, and report findings in a thesis.

Master's degree candidates learn to express ideas clearly and forcefully in both oral and written communication. They are also encouraged to develop teaching skills through formal study of pedagogical methods and supervised classroom teaching experience.

The Ph.D. degree is designed to provide students with a thorough understanding of their professional field and training in research methods. Students acquire a strong grasp of a broad field of study and are able to conduct independent research.

Students are required to complete advanced coursework and pass an advanced foreign language exam.

A preliminary qualifying examination, covering all fields of study included in the degree program, is also required. Ph.D. candidates will prepare a dissertation, an original thesis, and scholarly reports of independent research.

■ What Do You Study?

Rural System Engineering Track

Advanced Irrigation and drainage engineering (3)
Elastic Stability of Structures (3)
International Rural Water Resources Management (3)
Advanced Foundation Engineering (3)
Foundation Analysis (3)
Climate change hydrology (3)
Climate-Smart Agriculture and Soils (3)
Environmenl control for agricultural buildings (3)
Decision-making Analysis and Application for Rural Development (3)
Advanced Rural Tourism (3)
Design of Rural Survey and Analysis Methods (3)
New Local Rural Development Theory (3)
Rural Land Use Planning (3)
Topics in Water-Energy-Food Nexus (3)
Nonpoint Source Pollution Control Engineering (3)
Theory of Slope Stability (3)
Watershed Environmental Modeling (3)
System Analysis and Planning (3)
Experimental Design and Analysis (3)
Topics in Remediation of Polluted Land (3)
Discrete Event Systems Control (3)
Social · Spatial Mixed Countryside Planning (3)
Advanced Information of Structures on Design and Construction (3)
Advanced Intelligent Biosystems Engineering (3)
Advanced Design of Ground Improvement (3)
Advanced Design of Soil Structures (3)
Sustainable Nutrient Management (3)
Rural Ecological Engineering (3)
Rural water disaster prevention engineering (3)
Rural water resources management (3)
Rural Water Resources and Information Engineering (3)
Rural Systems Engineering Research (3)
Rural and peri-urban environmental planning and design (3)
Rural Environmental Engineering (3)
Soil Carbon Engineering (3)
Environmental Soil Chemistry (3)
Stability Analysis (3)
Advanced Soil Mechanics (3)
Environmental Isotope (3)

■ Professors

Rural System Engineering

- Kwang-Sik Yoon, Ph.D.
  [Professor, Rural Environmental Water, ksyoon@jnu.ac.kr]
- Woo-Jung Choi, Ph.D.
  [Professor, Environmental Soil Science, wjchoi@jnu.ac.kr]
- Won-Jin Baek, Ph.D.
  [Professor, Rural Infrastructure Engineering, bwj215@jnu.ac.kr]
- Seung-Hwan Yoo, Ph.D.
  [Associate Professor, Rural Water Resources Engineering, yoosh15@jnu.ac.kr]
- Se-Woon Hong, Ph.D.
  [Assistant Professor; Ag. Facilities and Environment, hsewoon@jnu.ac.kr]

■ Laboratories

Rural System Engineering

Irrigation and Drainage Lab

1. Supervisor: Kwang-Sik Yoon, Ph.D.
2. Research Interests
   - Water resources conservation in rural area
   - Nonpoint pollution modeling and monitoring
   - Water quality control in rural watershed
   - Engineering hydrology application
   - Rural stream restoration

Land Remediation and Reclamation Lab

1. Supervisor: Woo-Jung Choi, Ph.D.
2. Research Interests
   - Exploring C and N cycling in ecosystems using stable isotope techniques
   - Development of technology for enhanced soil C sequestration
   - Prevention and remediation of soil and water pollution
   - Dendrochronology study using tree ring for tracing historical changes in ecosystem under climate change

Rural Infrastructure Lab

1. Supervisor: Won-Jin Baek, Ph.D.
2. Research Interests
   - Effect of creep on the settlement-time relation during primary consolidation of clay.
   - An Analysis of secondary consolidation behavior of soft clayey ground
   - A characteristics of ground improvement method
   - A study on the stability of land slope by PANDA-cone penetration test results
   - A creep behavior of over-consolidated clay including secondary consolidation and influence of over-consolidation ratio

Rural Water Resources Engineering Lab

1. Supervisor: Seung-Hwan Yoo, Ph.D.
2. Research Interests
   - Modeling of Agricultural water resources
   - Analysis of Agricultural drought
   - Climate change impact in rural area
   - Estimation of water footprint and virtual water
   - Development of Water-Energy-Food Nexus platform

Agricultural Facilities and Environment Lab

1. Supervisor: Se-Woon Hong, Ph.D.
2. Research Interests
   - Environmental controls in agricultural buildings
   - Gas, aerosol and disease dispersions in local atmospheres
   - Wind engineering in rural areas
   - Fluid dynamic analysis for agricultural structures
   - Application of new & renewable energy to agriculture

Department of Agricultural Economics

Contact Information
Phone: +82-62-530-2170
Fax: +82-62-530-2179
E-mail: scsa13@jnu.ac.kr
URL: http://ae.jnu.ac.kr/

What is Agricultural Economics?

The purpose of the Agricultural Economics (AE) major is to enable students to think like economists in solving problems related to the agricultural sector. Thinking like an economist involves using chains of deductive reasoning to help understand phenomena as well as problem-solving and creative skills in the agricultural sector.

Our goals are to increase understanding of economic behavior and improve students' ability to understand and predict agricultural economic phenomena.

The main subjects of the Department of Agricultural Economics are agricultural economics, farm management, agricultural product price analysis, farm statistics, and resource and environmental economics.

Degree Requirements

Master's degree candidates are required to earn 24 credits and achieve a grade point average of 3.0 (based on a 4.5 scale). Students will normally take 2 years to complete a Master's Program, during which they must pass a comprehensive exam in 2 subjects and a foreign language exam (English). Master's theses may be submitted in English or Korean. Ph.D. Candidates are required to earn 36 credits and achieve a grade point average of 3.0 (based on a 4.5 scale). Students will normally take a minimum of 3 years to complete a Ph.D. program, during which they must pass a comprehensive exam in 3 fields and a foreign language exam (English). Ph.D. theses may be submitted in English or Korean.

What Do You Study?

Core Courses

Seminar in Agricultural Product Price(3)
Agricultural Marketing(3)
Seminar on Agricultural Marketing(3)
Advanced Farm Management(3)
Research Methods in Farm Management(3)
Advanced Farm Management(3)
Seminar on Agricultural Economics(3)
Advanced Agricultural Economics(3)
Advanced Agricultural Finance(3)
Advanced Agricultural Development(3)
Advanced Agricultural Production Economics(3)
Seminar on Agricultural Policy(3)
Advanced Agricultural Policy(3)
Seminar on Farm Statistics(3)
Advanced Farm Appraisal and Planning(3)
Advanced Food Economics(3)
Research Methodology(3)
Seminar on Resource Economics(3)
Advanced Regional Economic(3)

Regional Development(3)
Advanced Statistics(3)
Econometrics Ⅰ(3)
Econometrics Ⅱ(3)
Advanced Econometrics Ⅰ(3)
Advanced Econometrics Ⅱ(3)
Advanced Microeconomics Ⅰ(3)
Advanced Microeconomics Ⅱ(3)
Advanced Mathematical Economics Ⅰ(3)
Advanced Mathematical Ecomomics Ⅱ(3)
Advanced Production Economics(3)
Advanced Resource Economics(3)
Theory Of Public Choice(3)
Project Appraisal(3)
Advance International Agricultural Marketing(3)
Survey of Farmer Production Cost(3)
Advanced Agricultural Marketing Management(3)
Advanced Agricultural Marketing(3)
Advanced Agricultural Marketing Survey(3)
Seminar on Agricultural Finance(3)
Advanced Agricultural Cooperative Management(3)
Systems Analysis(3)
Seminar on Food Economics(3)
Applied Mathematical Programming(3)
Input-Output Analysis(3)
Advanced International Agricultural Marketing Development(3)
Advanced Farm Accounting(3)
Research Guidance 1(3)
Research Guidance 2(3)
Research Guidance 3(3)
Advanced Food Consumption Economics(3)
Advanced agricultural price Theory Ⅰ(3)
Advanced agricultural price Theory Ⅱ(3)
Advanced Resource & Environmental Economics(3)

▮ Electives

Rural Sociology (3)
Micro-analysis of Agricultural Economics (3)
Agricultural Accounting (3)
Regional Agricultural Economics (3)
Statistics for Agricultural Economist (3)
Agricultural Production Economics (3)
Study of Korean Economy (3)
Agricultural Extension Service (3)
Korean Agricultural History (3)
Agricultural Math Economics (3)
Agricultural Project Appraisal (3)
Agricultural Product Trade (3)
Agricultural Econometrics (3)
Agricultural Systems Analysis (3)
Farm Finance (3)
Rural Survey (3)
Cooperatives (3)
Farm Management Analysis (3)
Agricultural Development (3)
Practice in Economics (3)
Agricultural Marketing (3)
Agricultural Information (3)
Macro-analysis of Agricultural Economics (3)
Globalization and Food Security (3)
Big data analysis and research in Agricultural economics (3)

■ Careers

Possible careers extend to a multitude of organizations including the Rural Development Administration, Agricultural Research and Extension Services, government public institutions, research center, Agricultural Cooperative Association, Agricultural Technology Center, and other private sector firms.
It is also possible to enter graduate school or study abroad.

Professors

- Gue-Dae Cho, Ph.D.
  [Professor, Agricultural Policy, Agricultural Product Trade gcho6011@jnu.ac.kr]
- Hye-Jung Kang, Ph.D.
  [Professor, Farm Management, Production Economics, Food Consumption Economics, hjkang@jnu.ac.kr]
- In-Seok Kim, Ph.D.
  [Professor, Agricultural Marketing and Agribusiness, i.kim@jnu.ac.kr]
- Yoon-Hyung Kim, Ph.D.
  [Professor, Benefit-cost Analysis, Agricultural Development, yonhk@jnu.ac.kr]
- Hanpil Moon, Ph.D.
  [Associate Professor, Applied Econometrics hanpil@jnu.ac.kr]

Department of Landscape Architecture

Contact Information
Phone: +82-62-530-2100
Fax: +82-62-530-2109
E-mail: a4723@jnu.ac.kr
URL: http://jnula.jnu.ac.kr/

■ Graduate Studies in Landscape Architecture

The educational aim of Landscape Architecture is to train landscape architects who have detailed knowledge and understanding of landscape planning, design, construction, and management. Through theoretical study and practice, they are able to create and conserve aesthetically beautiful natural landscapes with concern for ecological stability, social pleasantness, and the artificial environment. Landscape study at Chonnam National University offers the following courses: regional ecosystem planning and management, open space planning, leisure space planning, urban planning, site planning, park planning, detailed design of outdoor space of buildings, roads, and plazas. We also offer research on the methodology for design and planning to analyze visual, functional, human behavioral, and social factors, and on the history of landscape architecture, ecology, landscape engineering, construction technology, landscape plants, and landscape plant design. Students develop traditional landscape techniques of planning, design, and management studied in undergraduate courses. They are also provided an opportunity to study advanced environmental planning, design, and management based on advanced computer graphics and GIS.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits and submit a thesis, normally over a period of 4 semesters.

■ What Do You Study?

Major Courses

Advanced Site Planning (3)
Advanced Landscape Engineering (3)
Landscape Architectural Structure (3)
Research Methods in Lnadscape Architecture (3)
Environmental Planning and Management with GIS (3)
Landscape Architectural Construction (3)
Advanced Theories on Landscape Maintenance (3)
Advanced Urban Open Space Planning (3)
Advanced History of Oriental Landscape Architecture (3)
Advanced History of Western Landscape Architecture (3)
Ecology in Landscape Plants (3)
Landscape Planting Design (3)
Advanced Landscape Gardening (3)
Advanced Forest Recreation Planning (3)
Advanced Urban Landscape Planning (3)
Urban and Regional Ecosystem Planning (3)
GIS Programming (3)
Water Pollution and Environmental Impact Assessment (3)
Park Planning and Ecological Engineering (3)

Advanced Planning of Natural Environment Restoration (3)
Natural Landscape Planning and Management (3)
Urban Landscape Planning and Management (3)
Universal Design (3)
Advanced Issues in Landscape Design (3)
Participating Landscape Design Theory (3)
Integrated Environmental Design (3)
Advanced Ecological Restoration and Ecological Engineering (3)

■ Professors

- Tong-Buhm Cho, Ph.D.
  [Professor, Landscape Design, tobcho@jnu.ac.kr]
- Ki-Yeol Lee, Ph.D.
  [Assistant Professor, Landscape Engineering, kylee@jnu.ac.kr]
- Eun-Il Kim, Ph.D.
  [Professor, Environmental Design, eikim@jnu.ac.kr]
- Yoon-Ku Kwon, Ph.D.
  [Assistant Professor, Landscape and Regional Planning, ykkwon@jnu.ac.kr]
- Sang-Wook Park, Ph.D.
  [Assistant Professor, Landscape Planting Design, psw04@jnu.ac.kr]

■ Laboratories

- Environment Planning Lab
  (Phone: +82-62-530-2105)
- Landscape Design Lab
  (Phone: +82-62-530-2102)
- Landscape Architecture Engineering Lab
  (Phone: +82-62-530-2108)
- Landscape and Regional Planning Lab
  (Phone: +82-62-530-2101)
- Landscape Planting Design Lab
  (Phone: +82-62-530-2104)

Department of Integrative Food, Bioscience and Biotechnology

Contact Information
Phone: +82-62-530-2160
Fax: +82-62-530-2169
E-mail: westlife-jeong@jnu.ac.kr
URL: http://ifbb.jnu.ac.kr

Graduate Studies in Department of Integrative Food, Bioscience and Biotechnology

First of all, with the vision of "Creative convergence talent development of human resources for leading future research and Industry of food and biotechnology", we set and pursue the educational goal of "Establishing and operating a food and biotechnology specialized education system at the level of top 200 universities in the world in 2030", the research goal of "Empowering basic research and problem-solving practical research for the convergence of food and biotechnology using agricultural life resources", and the internationalization goal of "Roles of world bridge for the convergence of food and biotechnology by activating international exchanges in 2030“

In order to achieve these goals, the curriculum reform has been carried out through benchmarking of world-renowned research universities. We are establishing a new graduate education system. Moreover, in response to changing educational and research environments, we are establishing a new graduate education system in advanced and proactive manners; for example, operation of Graduate Committee Program for each graduate student.

In the future, we will provide students with programs that allow them to experience various majors rather than being limited to specific ones (cultivation of fusion talents), operation of programs that give creativity and challenge to become professional researchers (cultivation of creative and problem-solving talents), talent-training programs tailored to industrial demand (cultivation of industry-matching talents), participation in international joint research programs to strengthen internationalization capabilities (cultivation of global talents), and various career choice programs for students (activation of employment and start-up).

Degree Requirements

Master’s degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn 60 credits including credits earned in a Master’s Program. Students are allowed to transfer up to 9 credits into the master’s program and 12 into the Ph.D. program. Master’s theses should be submitted by May or September of each year. Doctoral theses should be submitted by March or September.

Credits will be recognized when students earn a C or higher in the Master’s program and a B or higher in the Ph.D. program. Graduate students must earn a cumulative average of B or better to be awarded a degree. Candidates will be awarded a degree upon fulfilling all requirements, including the

foreign language requirement, and submitting a thesis for approval. The foreign language and comprehensive examinations are held in April or October.

■ What Do You Study?

Advanced Bioenergy Science(3)
Advanced Seminar in Plant Systems Biology(3)
Advanced Molecular Genetics and Breeding(3)
Protein Engineering(3)
Protein Biochemistry(3)
Metabolic Engineering(3)
Fundamentals of Animal Biotechnology(3)
Animal cell culture1(3)
Animal cell culture2(3)
Advanced Animal Genetic Engineering Ⅰ(3)
Advanced Animal Genetic Engineering Ⅱ(3)
Study on the membrane proteins(3)
Advanced Microbial Biotechnology(3)
Advanced Bioenergy Engineering(3)
Advanced Fermentation Engineering(3)
Special topics in Fermentation Sitology(3)
Advanced Analytical Chemistry(3)
Molecular farming(3)
Advanced Molecular Biotechnology(3)
Advanced Plant Pathology(3)
Advanced Molecular Genomics(3)
Advanced Molecular Mycology(3)
Introduction to Bioprocess Engineering(3)
Advanced Biotechnology(3)
Advanced Bioseparation Processes(3)
Advanced Biochemical Engineering(3)
Methodology in Biochemistry(3)
Special Topics in Biochemistry 1(3)
Special Topics in Biochemistry 2(3)
Seminar on the biogenesis of subcellular organelles(3)
Systems and Synthetic Biology Seminar(3)
Advanced Plant Metabolism(3)
Current topics in plant biomass research(3)
Advanced plant Developmental Genetics(3)
Special Topics in Plant Physiology(3)
Fundamentals of Plant Biotechnology(3)
Current Trends in Plant Biology(3)
Advanced Plant Biochemistry(3)
Trends in Plant Signaling Seminar(3)
Plant-Water Relationships(3)
Advanced Plant Genetic Engineering Ⅰ(3)
Advanced Plant Genetic Engineering Ⅱ(3)
Advanced Plant Tissue culture(3)
Plant Seed Physiology(3)
Research Seminar in Molecular Biology of Plant Hormones(3)
Plant Environmental Stress 1(3)
Plant Environmental Stress 2(3)
Food Processing and Preservation(3)
Food Functional Chemistry(3)
Metabolic engineering in Food(3)
Advanced Food Microbiology(3)
Food Virology(3)
Seminar in Food and Bio Technology1(3)
Seminar in Food and Bio Technology2(3)
Advanced Food Biotechnology(3)
Food and Biostatistics(3)
Advanced Food Chemistry(3)
Food Ingredient Technology(3)
Advanced Food System Engineering(3)
New product development(3)
Advanced Food Hygiene(3)
Advanced Food Packaging(3)
Chemistry of Food Chemistry(3)
Advanced Food Chemistry(3)
Special Topics in Signal Transduction(3)
Applicable Instrumental Analysis(3)
Advanced Food 1(3)
Advanced Food 2(3)
Research Training 1(3)
Research Training 2(6)
Research Guidance 1(3)
Research Guidance 2(3)

Research Guidance 3(3)
Nutritional Physiology(3)
Advanced Nutrition Chemistry(3)
Advanced Food Lipids(3)
Basics for Convergence of Food and Bio Technology(3)
Application Design for Convergence of Food and Bio Technology(3)
Colloquium for Convergence of Food and Bio Technology(3)
Advanced Applied Molecular Microbiology(3)
Advanced Molecular Endocrinology(3)
Advanced Molecular Immunology1(3)
Advanced Molecular Immunology2(3)
Recent Technology for Food Processing(3)
Carbohydrate Foods(3)
Special Topics in Nutrition(3)
Current Topics in Ocean Biomass(3)
Special Topics in Chemical Biology(3)
Plant Environmental Stress(3)
Advanced Seminar in Environmental Chemistry(3)
Advanced enzyme biotechnology(3)
Enzymology(3)

■ Professors

- Oksoo Han, Ph.D.
  [Professor, Genetic Biochemistry, oshan@jnu.ac.kr]
- Kyoungwhan Back, Ph.D.
  [Professor, Plant Genetic Engineering, kback@jnu.ac.kr]
- Jeong-Il Kim, Ph.D.
  [Professor, Protein Biochemistry, kimji@jnu.ac.kr]
- Suk-Whan Hong, Ph.D.
  [Professor, Molecular Genetics and Breeding, sukwhan@jnu.ac.kr]
- Jun Ho Lee, ph.D.
  [Associate Professor, Neuro Biotechnology, leejunho@jnu.ac.kr]
- Don-Kyu Kim, ph.D.
  [Associate Professor, Molecular Endocrinology, dkkim2@jnu.ac.kr]
- Hyunkyu Sang, ph.D.
  [Assistant Professor, Molecular Microbiology]
- Jong-Bang Eun, Ph.D.
  [Professor, Food Processing and Preservation, jbeun@jnu.ac.kr]
- Jae-Hak Moon, Ph.D.
  [Professor, Nutrition and Functional Chemistry, nutrmoon@jnu.ac.kr]
- Du-Woon Kim, Ph.D.
  [Professor, Food Microbiology and Food Biochemistry, dwkim@jnu.ac.kr]
- Young-Min Kim, Ph.D.
  [Associate Professor, Food Fermentation and Enzyme Engineering, u9897854@jnu.ac.kr]
- Jeong-Yong Cho, Ph.D.
  [Assistant Professor, Food and Natural Product Chemistry, jyongcho17@jnu.ac.kr]
- Soo-Jung Kim, Ph.D.
  [Assistant Professor, Food System Engineering, bioksj@jnu.ac.kr]
- Kim, Jungmook, Ph.D.
  [Professor, Plant Molecular Cell Biology, jungmkim@jnu.ac.kr]
- Ahn, Sung-ju, Ph.D.
  [Professor, Energy Crop Physiology, asjsuse@jnu.ac.kr]
- Bae, Hyeun-Jong, Ph.D.
  [Professor, Bioenergy & Biotechnology, baehj@jnu.ac.kr]
- Lee, Won-Heong, Ph.D.
  [Professor, Microbial Engineering wonhlee@jnu.ac.kr]
- Cho, Chul-Woong, Ph.D.
  [Associate Professor, Environmental Chemical Engineering, choicejoe@jnu.ac.kr]

• Lee, Dong Wook, Ph.D. [Associate Professor, Plant Cellular Systems Biology, ldw4844@jnu.ac.kr]

Laboratories

- Genetic Biochemistry Lab. (Phone: +82-62-530-2163)
- Plant Genetic Engineering Lab. (Phone: +82-62-530-2165)
- Protein Biochemistry Lab. (Phone: +82-62-530-2189)
- Molecular Genetics and Breeding Lab. (Phone: +82-62-530-2180)
- Neurobiotechnology Lab. (Phone: +82-62-530-2164)
- Molecular Endocrinology Lab. (Phone: +82-62-530-2166)
- Molecular microbiology Lab. (Phone: +82-62-530-2168)
- Food Processing and Preservation Lab (Phone: +82-62-530-2145)
- Food Microbiology Lab (Phone: +82-62-530-2144)
- Food Nutrition and Functional Chemistry Lab. (Phone: +82-62-530-2141)
- Food Fermentation and Enzyme Engineering Lab. (Phone: +82-62-530-2142)
- Food and Natural Product Chemistry Lab. (Phone: +82-62-530-2143)
- Food System Engineering Lab. (Phone: +82-62-530-2146)
- Plant Cell Signaling & Biomass Control Lab. (Phone: +82-62-530-2042)
- Energy Crop Physiology Lab. (Phone: +82-62-530-2052)
- Bioenergy & Biotechnology Lab. (Phone: +82-62-530-0266)
- Microbial Engineering Lab. (Phone: +82-62-530-2046)
- Environmental Biotechnology Lab. (Phone: +82-62-530-2045)
- Plant Cellular Systems Lab. (Phone: +82-62-530-2044)

Department of Convergence Biosystem Engineering

Contact Information
Tel: +82-62-530-2150
Fax: +82-62-530-2159
URL: http://bse.jnu.ac.kr

Graduate Studies in the Department of Convergence Biosystems Engineering

The Department of Convergence Biosystems Engineering deals with machinery, artificial intelligence, electricity, electronics, robots, diverse materials, and bioengineering for biosystems such as those pertaining to plants, animals, and humans. In other words, it deals with the knowledge necessary for the unmanned and intelligent production of biological resources, advanced bio-materials, and digital informatization, while nurturing convergence-type professional talents equipped with both agricultural and life science and engineering knowledge. Through this, we aim to contribute to the development of the future agricultural and bio industries. Graduate students in the Department of Convergence Biosystems Engineering enjoy small class sizes and frequent one-to-one contact with Professors. Faculty members are very keen to help and encourage students to develop their careers, from advising upon research activities to providing job opportunities.

Students entering one of the Department's graduate programs may select a research topic from a broad array of research fields.

- Agricultural Machine Control
- Sensors and Intelligent Biosystems
- Human-Centered Robotics and Automation
- Nanoengineered Biomaterial Systems
- Bio-manufacturing Systems
- Off-road mobility system

Degree Requirements

The master's degree requires students to complete advanced coursework, pass a foreign language proficiency test and preliminary qualifying exams, and become accustomed to research methodology. Students are required to plan, conduct, and analyze a comprehensive research project, and report findings in a thesis.

Master's degree candidates learn to express ideas clearly and forcefully in both oral and written communication. They are also encouraged to develop teaching skills through formal study of pedagogical methods and supervised classroom teaching experience.

The Ph.D. degree is designed to provide students with a thorough understanding of their professional field and training in research methods. Students acquire a strong grasp of a broader field of study and are able to conduct independent research.

Students are required to complete advanced coursework and pass a higher proficiency foreign language exam. A preliminary qualifying examination, covering all fields of study included in the degree program, is also required. Ph.D. candidates will prepare a dissertation, an original thesis, and scholarly reports of independent research.

■ What Do You Study?

Engineering Cell Biology (3)
Dynamics of Farm Machinery (3)
Advanced Design of Agricultural Machinery (3)
Vibration of Agricultural Machinery (3)
Agricultural Fluidpower System (3)
Advanced Farm Machinery Ⅰ (3)
Advanced Farm Machinery Ⅱ (3)
Micro- and Nanoengineering in Agriculture (3)
BioMEMS (3)
Biosensor (3)
Advanced Measurement Engineering for Biosystems (3)
Special Topics in Biosystems Mathematics 1 (3)
Special Topics in Biosystems Mathematics 2 (3)
Topics in Biosystems Engineering Ⅰ (3)
Topics in Biosystems Engineering Ⅱ (3)
Special Topics in Biosystems Robotics (3)
Special Topics in Biosystems Machine Learning (3)
Advanced Image and Signal Processing for Biosystems (3)
Advanced Electrical and Electronic Engineering for Biosystems (3)
Biosystem Control Ⅰ (3)
Biosystem Control Ⅱ (3)
Topic in Biological Thermodynamics (3)
Advanced Mechanics for Biosystems (3)
Advanced data communication and networking for biosystems (3)
Advanced Bio-Resources Process Engineering (3)
Topic in Biomaterials and Tissue Engineering (3)
Advanced Statistics of Bioinformation (3)
Biologically Inspried Engineering Systems (3)
Advanced mechatronics for biosystems (3)
Plant Factory Automation (3)
Engineering Thesis Writing in English (3)
Telerobotics and Its Applications (3)
Fluid Power Control System (3)
Advanced Human-Robot Interface (3)
Advanced precision Agricultural Engineering (3)
Topics in Tractor Engineering (3)
Haptics and Virtual Reality (3)

■ Professors

- Young-Soo Choi, Ph.D.
  [Professor, Biosystems Machine Control, y-choi@jnu.ac.kr]
- Kyeong-Hwan Lee, Ph.D.
  [Professor, Sensors and Intelligent Biosystems, khlee@jnu.ac.kr]
- Hyoung Il Son, Ph.D.
  [Professor, Human-Centered Robotics and Automation, hison@jnu.ac.kr]
- Jangho Kim, Ph.D.
  [Professor, Nanoengineered Biomaterial Systems, rain2000@jnu.ac.kr]
- Hee-Gyeong Yi, Ph.D.
  [Associate Professor, Bio-manufacturing Systems, hgyi@jnu.ac.kr]
- Jooseon Oh, Ph.D.
  [Associate Professor, Off-road mobility system, jooseon.oh@jnu.ac.kr]

Department of Education

Contact Information
Phone: +82-62-530-2340
Fax: +82-62-530-2359
URL: http://educate.jnu.ac.kr

Overview of Graduate Studies in Education

The main educational goal of the Department of Education is to empower graduate students to become competitive researchers through cutting-edge interdisciplinary research and practices of education. The department offers the following graduate programs: Counseling Psychology (Career Counseling), School Psychology, Educational Psychology, Educational Evaluation, Educational Technology, Educational Administration, Educational Philosophy, Educational History, Curriculum, Educational Sociology, and Lifelong Education. Two levels of graduate degrees are awarded at the Department of Education; the Master's of Education, and the Doctorate of Philosophy in Education (Ph.D.). Prospective students are advised by a faculty member to decide upon their specialization area at the initial stage of application for admission.

Degree Requirements

Master's degree candidates are required to earn at least 24 credits. Ph.D. candidates are required to earn an additional 36 credits. Students in the combined master's/Ph.D. program must earn 54 credits. Greater requirements may be enforced through internal regulations in specialized areas of study or upon agreement between academic advisors and the Chair of the Department of Education.

Before applying for the comprehensive examination, all graduate students must fulfill course requirements (18 credits for master's students, 27 credits for Ph.D. students, and 36 credits for master's/Ph.D. students) and receive recommendations from their academic advisors. They must also have participated in at least two-thirds of all faculty-graduate student seminars held by the department, submitted their thesis/dissertation proposals on time (and received passing scores), and published a research article in a peer-review journal.

Graduate students should submit a thesis proposal or a dissertation proposal along with recommendations from their respective academic advisors six months ahead of the due date for submission of their thesis or dissertation to the thesis/dissertation committee for review and evaluation. Before theses or dissertations are referred to the committee for review and evaluation, students must have fulfilled course requirements and passed the foreign language test and comprehensive examination.

Both master's and Ph.D. students are assigned to an academic advisor upon entry into their programs. If needed, students can change their academic advisors during their first year. Another co-advisor can be available if a student wants.

■ What Do You Study?

General Courses

Qualitative Research Methods in Education
Quantitative Research Methods in Education
Intermediate Course in Statistical Methods for Educational Research
Foundation Seminar of Flourishing
Flourishing Research Seminar
Flourishing Advanced Seminar
Educational Design and Flourishing for Future
Introduction to Research Design and Research Ethics

Electives

[Division of Counseling Psychology, School Psychology, & Educational Psychology]

Positive Psychology and Positive Education
Developmental Psychopathology
Social and Emotional Development
School Psychological Intervention and Prevention
Research Seminar in School Psychology
School Psychological Consultation
School Psychological Assessment
Planning School Psychological Intervention Programs
Theories and Practices of Family Counseling
Counseling Case Study and Supervision
Research Seminar in Counseling Psychology
Practice in Counseling and Ethics
Theories of Counseling
Life and Career
Counseling of Children & Adolescents
Mental Health and Abnormal Psychology
Theories and Practices of Career Counseling
Theories and Practices of Group Counseling
Seminar in Educational Psychology
Seminar in Strategy of Positive Motivation to learn
Current Issues in Motivation
Social Psychology and Education
Theories of Human Characteristics and Development
School Issues and Educational Psychology
Learning Theories
Happiness and Education

[Division of Educational Evaluation]

Advanced Educational Statistics
Theories of Educational Measurement and Assessment
Seminars in Educational Evaluation
Educational Program Evaluation

[Division of Educational Technology]

Virtual Reality and Instruction
Theory of Instructional Design and Development
Theories of Instruction and Learning
Research Methods of Instructional Technology
Policy Development for Educational Informatization
Learning Design for Digital and Flourishing
User Interface Design
Theory and Practice of Performance Technology
Neuroscience and Learning Design
Case Studies of Distance Education
Artificial Intelligent and Education
Design and Application of AR and MR

[Division of Educational Administration]

Theories in Educational Administration
Case Studies of Educational Administration
Research Methods in Educational Administration
Educational Policy
Educational Reforms
Comparative International Education
Theories of Educational Organization
Financing of Education
Personnel Administration in Education
Core Competence Development for Educators
Educational Leadership
Big data & Educational Policy Research Seminar

[Division of Educational Philosophy & Educational History]

Study of Educational Classics

History of Educational Issues
Philosophy and Theory of Education
Seminar: Inquiry in Educational Philosophy
A philosophical approach to pedagogy
Study on Critical Pedagogy
Intercultural Education and Philosophy
Studies in the Western Educational Thoughts
Study on Korean Educational Thought
Study on Modern Educational Philosophy

[Division of Curriculum]
Theory of Liberal Curriculum
Curriculum Development
Research Methods in Curriculum
Studies In Theory Of Curriculum
Philosophy of Curriculum
Theories of Latent Curriculum
Contemporary Curriculum Theories Ⅰ
Contemporary Curriculum Theories Ⅱ

[Division of Educational Sociology & Lifelong Education]
Education and Social Mobility
Research Practice of Educational Sociology
Theories in Sociology of Education
Demographic Approach to Education
Theories of Life-long Education
Research Methodology of Lifelong Education

Other Courses
Students from other areas of study may need to take additional undergraduate courses in the Department.

■ Professors

- Hoisoo Kim, Ph.D.
  [Professor, Educational Technology, kimh@jnu.ac.kr]
- Sichang Yum, Ph.D.
  [Professor, Educational Evaluation, sichang@jnu.ac.kr]
- Hyeonsook Shin, Ph.D.
  [Professor, School Psychology, shinphd@jnu.ac.kr]
- Min-ho Yeom, Ph.D.
  [Professor, Educational Administration, minho@jnu.ac.kr]
- Jeeheon Ryu, Ph.D.
  [Professor, Educational Technology, jeeheon@jnu.ac.kr]
- Sung-Hyun Cha, Ph.D.
  [Professor, Educational Finance, shcha@jnu.ac.kr]
- Ju Ri Joeng, Ph.D.
  [Associate Professor, Counseling Psychology, jjoeng@jnu.ac.kr]
- Jumi Lee, Ph.D.
  [Associate Professor, Educational Psychology, jlee@jnu.ac.kr]
- Eun-young Hong, Ph.D.
  [Associate Professor, Philosophy of Education, aporia@jnu.ac.kr]
- Haram Jeon, Ph.D.
  [Associate Professor, Sociology of Education, haraming@jnu.ac.kr]
- Ji Hae Lee, Ed.D.
  [Assistant Professor, Counseling Psychology, leeji@jnu.ac.kr]
- Kyunghee Shin, Ph.D.
  [Associate Professor, Curriculum, khshin5@jnu.ac.kr]
- Robert Otto Davis, Ph.D.
  [Assistant Professor, Educational Technology, rdavis@jnu.ac.kr]

■ Laboratories

- Cognitive Science & Learning Research Lab
- Center for Immersive Learning Technology
- Instructional Media Design & Development Lab
- Counseling Psychology Lab
- Educational Policy Lab
- School/Educational Psychology·Educational Evaluation Lab
- Philosophy of education·Sociology of education·Curriculum theory Lab

Early Childhood Education

Contact Information
Phone: +82-62-530-2360
Fax: +82-62-530-2369
URL: http:/ecedu.jnu.ac.kr/

■ Graduate Studies in Early Childhood Education

Programs for the master's degree and doctoral degree provide advanced professional training in early childhood education. Programs broaden and deepen graduate students' knowledge in the field of early childhood education and/or enable certified early childhood teachers to improve their professional competence in teaching young children.

The department provides diverse lectures and seminar courses as well as research-oriented courses for students in master's and doctoral programs. Our graduates have taken positions as early childhood education center directors, research professionals, university professors, and so on.

■ Degree Requirements

Master's degree students are required to earn 24 credits and to complete a thesis in order to graduate. Doctoral students are required to earn 36 credits and to complete a dissertation in order to graduate.

■ What Do You Study?

General Courses

Study on Early Childhood Curriculum
Educational Statistics and Research
Design in Early Childhood Education
Research for Master's or Doctoral Degree

Other requirements

Students from other undergraduate majors may need to take a certain number of prerequisite classes from the undergraduate and postgraduate courses in the Department.

■ Professors

- Mi-Sook Choi, Ed.D.
  [Professor, Child Development and Evaluation, mschoi@jnu.ac.kr]
- Kyung-Sook Kim, Ph.D.
  [Professor, Early Childhood Inclusive Education, kim2366@jnu.ac.kr]

- Kyee-Yum Kwon, Ed.D.
  [Professor, Early Childhood Teacher Education, kwon0301@jnu.ac.kr]
- Hyo-Jin Kim, Ed.D.
  [Assistant Professor, Early Childhood Curriculum and Instruction, kimhyoj@jnu.ac.kr]
- Jeong-Ae Lee, Ed.D.
  [Assistant Professor, Early Childhood Social Education, jalee2021@jnu.ac.kr]

Laboratories

Seminar rooms are available for graduate students to facilitate their research activities.

Social Studies Education

Contact Information
Phone: +82-62-530-2370
Fax: +82-62-530-2379

■ Graduate Studies in Social Studies Education

This program is designed to strengthen educators' theoretical knowledge as well as to provide experience in educational research. The Ph.D. Program is designed to prepare students to become educational scholars in areas of history education, geography education, ethics education, and social science education.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits (a minimum of 12 credits in this department). They must also pass a comprehensive exam (in 2~3 other subjects) and a foreign language exam.

Ph.D. candidates are required to earn 36 credits (minimum of 18 credits in this department). They must also pass a comprehensive exam (in 4 subjects) and a foreign language exam. Furthermore, students must present a thesis proposal and a research paper at a scholarly conference at least once before submitting a thesis.

All students are assigned a supervisor based on research interests and major.

■ What Do You Study?

General Courses

Education Theory for Social Studies
Text Analysis for Social Studies
Methods and Assessment in Social Studies Education
Seminars in Social Studies Education

History Education Major Courses

Development of History Texts
History teaching
Theory of History Education
Studies of History Classrooms I
Studies of History Classrooms II
Studies of Korean History Texts
Recent Studies of Korean History
Studies in Ancient History of Korea
Studies in Medieval History of Korea
Studies in Pre-modern History of Korea
Studies In Modern History Of Korea
Studies of Asian History Texts
Recent Studies of Asian History
Studies of European History Texts
Recent Studies of European History
Studies In Ancient Western History
Studies in Medieval Western History
Studies In Modern Western History
Studies in Contemporary Western History

Ethics Education Major Courses

Studies of International Politics
Topics in Oriental Thought
Studies in Unification Education
Studies on Korean Ethical Thought
Studies in British and American Ethical Thought

Readings on Korean Ethical Thought
Studies in North Korean Society
Studies on Anthropology
Seminar in Economic Education
Democracy & Citizenship Education
Seminar in Social Culture Education
Studies in Modern Ethical Thought
Studies in North Korean Education
Applied Ethics Seminar
Studies on Ethics and Values Education
Studies in Theories of Moral and Ethics Education
Topics in Logic and Essay of Moral and Ethics Education
Studies in Teaching evaluation of Moral and Ethics Education
Studies in Confucian Ethics
Studies in Buddhist Ethics
Readings of Western Ethics Writings
Studies in Western Ethical Thoughts
Seminar on Moral Psychology
Study of Moral Curriculum and Method

Geography Education Major Courses

Advanced Lecture of Geosystem Education
Advanced Lecture of Structural Geomorphology Education
Contemporary Development of Geography Thought Education
Education of Field Survey for Geomorphology Information
Geostatistical Analysis
GIS & Remote Sensing
Practices in Geographic Curriculum
Research Methodology in Physical Geography
Research Methodology in Urban Geography
Research Methodology in Economic geography
Research of Quaternary Environment
Research on Education of Contemporary Cultural Space
Research on Education of Cultural Geography
Research on Education of Migration and Diaspora
Seminar in Climatic Geomorphology
seminar in climatic geomorphology and climatic changes
Seminar in Development Studies
Seminar in Economic Geography Education
Seminar in Location Theory
Seminar in Physical Geography
Seminar in population Geography Education
Seminar in Rural settlement Planning Education
Seminar in Urban Geography Education
Seminar in Urban Structure Theory Education
Seminar in World Urban Region Education
Seminar on Educatioin of Social Geography
Seminar on education of contemporary human geographic issues
Seminar on Education of Critical Geography
Seminar on Education of Feminist Geographies
Seminar on Education of Historical Geography
Seminar on Education of Social Space in the City
Seminar on Research Methods of Geographic Education
Studies in Curriculum of Geography Education
Studies in Industrial Region
Studies of Cartography and GIS
Studies of Environmental Geography Education
Studies of System Analysis if Pedology
Studies of World Grography Education
Topics on History of Geography Education Thoughts

■ Professors

History Education

- Young-Hyo Lee Ph.D.
  [Professor, Western History/ History Education, leeyh678@hanmail.net]
- Young-Ok Lee Ph.D. in History
  [Professor, Ming & Qing China, youngok@jnu.ac.kr]
- Kyong-Tae Kim Ph.D. in History

[Assistant Professor, History of Chosun Dynasty, kimkt@jnu.ac.kr]

• Yeongkwang Jo Ph.D. in History
[Assistant Professor, Ancient Korean History, joyk@jnu.ac.kr]

Ethics Education

• Kee-Hyeon Kim, Ph.D.
[Professor, East Asian Ethics, 47korea@hanmail.net]

• Young-Ran Roh, Ph.D.
[Professor, Western Ethics, yrroh@hanmail.net]

• Tak-Joon Jung, Ph.D.
[Professor, Moral Education, jungtj1@hanmail.net] 1

• Gu-Sup Kang, Ph.D.
[Professor, Unification Education, gusupkang@gmail.com]

Geography Education

• Jin-Kwan Kim, Ph.D.
[Associate Professor, Physical Geography, Geomorphology, jinkwankim77@gmail.com]

• Kyong-Hwan Park, Ph.D.
[Professor, Social and Economic Geography, kpark3@gmail.com]

• Su-Jeong Kim, Ph.D.
[Assistant Professor, Urban and Cultural Geography, sjkim108@jnu.ac.kr]

• Yong-Gyun Lee, Ph.D.
[Professor, Regional and Population Geography, yonggyunlee@hanmail.net]

■ Laboratories

- Research Center for Regional Geographic information
- Multimedia classroom, GIS & Physical Geography Laboratories

Ethics Education

Contact Information
Phone: +82-62-530-2400
Fax: +82-62-530-2409
URL: http://ethicsedu.jnu.ac.kr

Graduate Studies in Ethics Education

Graduate programs in Ethics Education prepare educators by broadening and deepening students' knowledge in the field of ethics education, and enabling secondary school teachers to enrich their background in teaching and to improve their professional competence. The coursework contains studies in Western ethics and Eastern ethical thoughts, together with studies of North Korea in preparation for national reunification.

What Do You Study?

- Topics in Oriental Thought
- Studies in Unification Education
- Studies on Korean Ethical Thought
- Studies in British and American Ethical Thought
- Readings on Korean Ethical Thought
- Topics in Political and Social Thought
- Studies in Practical Philosophy
- Studies on Korean- Chinese Contemporary Philosophy
- Studies on Anthropology
- Studies in Ethics on the Principle of Gender Equality
- Studies in Modern Ethical Thought
- Studies in North Korean Society
- Studies in North Korean Education
- Applied Ethics Seminar
- Studies on Ethics and Values Education
- Studies in Theories of Moral and Ethics Education
- Topics in Logic and Essay of Moral and Ethics Education
- Studies in Teaching evaluation of Moral and Ethics Education
- Studies in Confucian Ethics
- Studies in Buddhist Ethics
- Seminar in Theories of Ethics Education in Korea
- Readings of Western Ethics Writings
- Studies in Western Ethical Thoughts
- Seminar on Moral Psychology
- Study of Moral Curriculum and Method

Professors

- Kee-Hyeon Kim, Ph.D.
  [Professor, East Asian Ethics, 47korea@hanmail.net]
- Young-Ran Roh, Ph.D.
  [Professor, Western Ethics, yrroh@hanmail.net]
- Tak-Joon Jung, Ph.D.
  [Professor, Moral Education, jungtj1@hanmail.net]
- Gu-Sup Kang, Ph.D.
  [Professor, Unification Education, gusupkang@gmail.com]

Laboratories

- Graduate Seminar Room

English Education

Contact Information
Phone: +82-62-530-2430
Fax: +82-62-530-2449
URL: http://engedu.jnu.ac.kr

■ Graduate Studies in English Education

The Department of English Education offers a well-organized training program and in-depth MA and Ph.D. postgraduate courses in English Education. The graduate program of the Department aims to prepare graduates to take a leading role in fields related to English education, English language, and English literature. They will become experts in the interrelated areas of English education. The courses focus on concepts, principles, and theories of English education and provide a general background in English language and literature, with a special focus on ELT. The department's curricula are tailored and structured to appeal to those who are interested in exploring all areas of linguistics and literature. Successful graduates who obtain the degree of Master of Arts in English Education or Doctor of Philosophy in Education are expected to take the role of researchers and specialists in the fields of English language, English literature, and English education.

■ Degree Requirements

Part-time students are limited to earning less than 9 credits per semester. Ph.D. candidates who require supplementary credits (aside from those who hold Master's degrees in English Language and Literature or English Education) may earn more than 9 credits.

All students must pass a qualification examination prior to presenting a thesis or dissertation and must also pass a foreign language test. All theses must be handed in for perusal before a thesis is officially submitted for examination. A total of 6 faculty members shall sit on the thesis examining board.

Master's degree candidates must earn 24 credits(15 from Department courses) with a GPA of 3.0 or higher and Ph.D. candidates must earn 36 credits (21 from Department courses) to graduate. A supervisor is assigned to all students.

All doctoral students enrolled since 2005 must publish at least 1 paper in a KCI journal (co-publications with supervisors are also acceptable).

■ What Do You Study?

Major

Research Method in TEFL (3)
Testing in TEFL (3)
TEFL Methodology (3)
ELT Materials Development (3)
Theoretical Foundation of TEFL (3)
Applied Linguistics (3)
English Discourse Analysis (3)
Second Language Acquisition (3)
Sociolinguistics and TEFL (3)
Psycholinguistics and TEFL (3)
English Pedagogical Grammar (3)
Topics in TEFL Methodology (3)
Seminar on TEFL (3)
English Applied Phonetics (3)
English Phonology (3)
English Syntax (3)
English Semantics (3)
English Pragmatics (3)
Topics in English Linguistics (3)
English Linguistics and TEFL (3)
Seminar on British and American Poetry (3)
Seminar on British and American Novel (3)
Seminar on British and American Drama (3)
Seminar on British and American Criticism (3)
Seminar on EAP(English for Academic Purposes (3)
British and American Literature Education (3)
British and American Culture and English Education (3)
Feminist British and American Literature (3)
The Western Classic and Its Pedagogy (3)

■ Professors

- Byung Kyoo Ahn, Ph.D.
  [Professor, English Education, ahnbk@jnu.ac.kr]
- Chul Joo Uhm, Ph.D.
  [Professor, English Education, cjuhm@jnu.ac.kr]
- Hui Sok Yoo, Ph.D.
  [Professor, 19th Century American Novels, yoohuisok@yahoo.com]
- Jee Hyun Ma, Ph. D.
  [Professor, English Education, jeehyun@jnu.ac.kr]
- Mun-Hong Choe, Ph.D.
  [Professor, English Education, munhong@jnu.ac.kr]
- Seung-a Ji, Ph.D.
  [Associate Professor, English Drama, shange@jnu.ac.kr]

Physical Education

Contact Information
Phone: +82-62-530-2550
Fax: +82-62-530-2569
URL: http://physicaledu.jnu.ac.kr/

■ Graduate Studies in Physical Education

The Department of Physical Education was established in March 1973 with the aim of fostering physical education teachers. In the 33 years since its inception, the Department has produced over 1,000 physical education teachers. The Department has 7 Professors in various branches of learning and there are currently over 100 students enrolled.

■ Degree Requirements

Students are required to earn the required number of credits to graduate. Students must also pass a comprehensive test, a foreign language exam, and fulfill computer certification requirements.

■ What Do You Study?

Basis in Kinesiology
Research in the Aged Sports Psychology
Fitness Prescription for the Aged
Research for Master's or Doctoral Degree
Topics in Leisure Sport Culture
Topics in Public Health Crash Course
Research in Social Problem and Sports
Topics in Social Problem and Sports
Research in Biomechanics
Topics in Biomechanics
Research in Sports for All
Topics in Sports for All
Research I in Sports Management and Marketing
Seminar II in Sports Management and Marketing
Research in Sports Tourism
Topics in Sports Tourism
Research in Sports Pedagogy
Topics in Sports Pedagogy
Research in Sports Marketing
Topics in Sports Marketing
Sports Culture of Walk Literature
Research in Social Psychology of Sports
Topics In Social Psychology of Sports
Research in Sports Sociology
Topics in Sports Sociology
Topics in Counseling Psychology of Sport
Research in Sports Vital Dynamics
Research in Sport Psychology
Experiments in Sport Psychology
Topics in Sport Psychology
Sports History and Phenomenon
Topics in Sports History
Communication of Sports and Culture
Topics in Sports Ethics
Research in Sports Medicine
Topics in Learning of Sports
Sports Philosophy Search
Topics in Philosophy of Sport Education
Research in Exercise Test and Exercise
Exercise and Healthcare

Exercise and Neuromuscular Physiology
Motion and Senility
Exercise and Physiology for the Aged
Exercise and Obesity
Exercise, Metabolic and Lifestyle Disease
Research in Exercise and Geriatric Disease
Exercise and Cardiopulmonary Function
Exercise and Ergonomics
Exercise and Weight Management
Analyzed Method in Sports Technique
Research in Exercise Physiology
Topics in Exercise Physiology
Experiments in Kinesiology
Research in Kinesiology
Topics in Exercise Science of Nutrition
Research in Exercise Hygiene
Research in Motor Control
Topics in Motor Control
Research in Motor Learning
Topics in Motor Learning
Applied Biomechanics I
Application Exercise Dynamics
Topics in Teaching Theory of Physical Education
Research in Teaching Method of Physical Education
Research in Curriculum Methods of Physical Education
Topics in Curriculum Theory of Physical Education
Topics in History of Physical Education Thought
Criticism of Physical Education Classes
Special Lecture for Criticism of Physical Education Classes
Measurement Estimation Experiment I
Measurement Estimation Experiment II
Research in Measurement and Evaluation of Physical Education
Topics in Physical Education Measurement Estimation
Statistics in Physical Education Ⅰ
Statistics in Physical Education Ⅱ
Research Method in Physical Education Ⅰ
Research Method in Physical Education Ⅱ
Topics in Training Theory
Modern Society Sports Value

■ Professors

- Jong-Soo Baek, Ph.D.
  [Professor, Sports Pedagogy, bjs0508@jnu.ac.kr]
- Young-Kwan Kim, Ph.D.
  [Professor, Motor Mechanics, ykkim01@jnu.ac.kr]
- Jun Kim, Ph.D.
  [Associate Professor, Sports Sociology, aquaspo@jnu.ac.kr]
- Dae-yeol Kim, Ph.D.
  [Associate Professor, Exercise Physiology, kimdaeyeol@jnu.ac.kr]
- Park Saengryeol, Ph.D.
  [Assistant Professor, Sports Psychology, elebpark@gmail.com]

Special Education

Contact Information
Phone: +82-62-530-5400
Fax: +82-62-530-5409
URL: http://spededu.jnu.ac.kr/

Graduate Studies in Special Education?

Special Education is a form of education that arranges special curricula that fits the characteristics of physically and mentally challenged students who have trouble learning in mainstream schools.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn 36 credits.

What Do You Study?

Seminar in Health Impairments (3)
Advanced Statistics for Educational Research (3)
Statistics for Educational Research (3)
Deaf culture and Deaf Social (3)
Single-Subject Design (3)
Research in Augmentative & Alternative Communication (3)
Teaching-Learning Theory for Children with Visual Impairments (3)
Education for Children with Visual Impairments (3)
Seminar in Education for Children with Visual Impairments (3)
Research in Language Development (3)
Assessment and Evaluation of Children with Language Disorders (3)
Research Training 1 (3)
Research Training 2 (3)
Advanced Seminar in Early Childhood Special Education (3)
Seminar in Managing Early Childhood Special Education Institutions (3)
Seminar in Early Childhood Special Education (3)
Advanced Seminar to Applied Behavior Analysis (3)
Seminar to Applied Behavior Analysis (3)
Communication and Attachment (3)
The study of Education for Language Disorders (3)
Evaluating Research in Communication Disorders (3)
Trends and Issues in Communication Disabilities (3)
Study on Reading and Writing Disabilities (3)
Seminar to Autism and Developmental Disabilities (3)
Communication Intervention for Students with Autism Spectrum Disorder (3)
Seminar in Early Childhood Education Curriculum (3)
Theory of lifelong education for the disabled (3)
Disability Studies Seminar (3)
Seminar in Education for Children with Severe & Multiple Disabilities (3)
Advanced Seminarin Children with Moderate Disabilities (3)
Seminar in Education for Children with Severe & Multiple Disabilities (3)
Research in Education for Children with Severe Intellectual Disability (3)
Education for Children with Intellectual Disability (3)

Seminar in Education for Children with Intellectual Disability (3)
Research in Psychology of Children with Intellectual Disability (3)
Qualitative Research Method Ⅰ (3)
Qualitative Research Method Ⅱ (3)
The study of Education for Hearing-Language Impairments (3)
Audiology (3)
Seminar in Inclusive Education (3)
Seminar in Special Education Professionals (3)
Research in Special Education Technology (3)
Teaching and Learning in Special Education (3)
Research Methods in Special Education (3)
Seminar on Special Education Policy (3)
Seminar on Special Ecucational System (3)
Family counseling for children with disabilities (3)
Seminar in Counseling for Children with Disabilities (3)
Counseling Theory and Practice for the Children with disability (3)
Assessment of Children with Disabilities (3)
Seminar in Special Parent Education (3)
Practice of psychological tests for children with disabilities (3)
Instructional and Learning Strategies for Students with Learning Disabilties (3)
Seminar of Learning Disabilities Ⅰ (3)
Seminar of Learning Disabilities Ⅱ (3)
Mathematics Education for students with Learning Disabilities (3)
Study on Psychology of Students with Learning Disabilities (3)
Research Trends and Challenges for Learning Disabilties (3)
Diagnosis and Assessment of students with Learning Disabilities (3)
Indroduction to Korean Sign Language Linguistics (3)

■ Professors

- Hyun-Jong Song, Ph.D.
  [Educational Psychology and Counseling Psychology, hjsong@jnu.ac.kr]
- Doohyoo Lee, Ph.D.
  [Educational Policy, doohlee@jnu.ac.kr]
- Hongjoong Cho, Ph.D.
  [Education of Children with Physical Disabilities, chohj@jnu.ac.kr]
- Soon-Ja Lee, Ph.D.
  [Methodology of Early Childhood Education, jelmana@jnu.ac.kr]
- Eun Ko, Ph.D.
  [Education of Language Auditory Children with Language and Auditory Impairments, eunko@jnu.ac.kr]
- Hyeseung Choi, Ph.D.
  [Autism Spectrum Disorder, Emotional and Behavioral Disorders, hchoi2004@jnu.ac.kr]
- Sook-Hyun Oh, Ph.D.
  [Curriculum for Early Childhood Education, shoh04@jnu.ac.kr]
- Tae-Su Lee, Ph.D.
  [Learning Disabilities, Subject Education, taesu811@jnu.ac.kr]
- Woo-ri Kim, Ph.D.
  [Teaching and Learning Methods in Special Education, rnell777@jnu.ac.kr]
- Chung-Eun Lee, ph D.
  [Education of Children with intellectual disability, Family support, celee@jnu.ac.kr]

Science Education

Contact Information
Phone: +82-62-530-2500
Fax: +82-62-530-2509

■ Graduate Studies in Science Education

The Doctoral Program of science education confers Doctor of Philosophy in Science Education candidates. The program aims to develop professionals in the research and practice of science education. It consists of six majors: physics education, chemistry education, earth science education, biology education and mathematics education, and Science Gifted Education.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn 36 credits. The academic year consists of two semesters, each comprising 15 weeks of instruction. A maximum of 12 credits earned at other universities or colleges with doctoral degree programs, prior to entering the Graduate School may be transferred for the doctoral degree program. For doctoral students of the program at least 18 credits are required, consisting of 6 credits in science or mathematics education courses, and 12 credits in science or mathematics content courses. Doctoral students must publish at least one publication in international or nationwide (KCI indexed) academic journals before presenting their doctoral thesis. Doctoral degrees shall be conferred upon the candidate who has fulfilled all of the above conditions, passed the comprehensive examination, fulfilled the one foreign language requirement, and have submitted a thesis for approval.

■ What Do You Study?

Common

Teaching and Learning Theory in Science Education
Learning Theory for Scientific Inquiry Ⅰ
Learning Theory for Scientific Inquiry Ⅱ
Psychology Methods in Science Education
Research Methods in Science Education
Issues in Science Education Research
History of Science and Science Education
Philosophy of Science and Science Education
Teaching and Learning Theory for the Gifted in Science
Development of Learning Materials for the Gifted in Science
Teaching Science, Technology and Society
Seminars in Science Education Ⅰ
Seminars in Science Education Ⅱ
Study in Science Education Ⅰ
Study in Science Education Ⅱ
Multimedia and Science Education
History of Mathematics and Mathematics Education
Topics in Mathematics Education

Philosophy of Mathematics Education

Physics Education Courses

Topics in Mathematical Physics
Assessment of Physics Learning
Physics Learning and Context
Teaching Physics Experiment
Advanced Statistical Physics Education
Advanced Modern Physics Education
Understanding Contemporary Physics
Relativity Education
Condensed Matter Physics Education
Advanced Optics Education
Advanced Mechanics Education
Advanced Electromagnetism Education
Topics in Quantum Physics
Advanced Thermal Physics Education
Analysis of Physics Curriculum and Development of Teaching Materials
Special Topics in Physics Education
Advanced Physics Experiment
Physics Education and Computers
Physics Education and Electronics
Seminar on Physics Education
Secondary school physics Experiment Research
Mechanics Education
Electromagnetism Education
Quantum Physics Education

Chemistry Education Courses

Curriculum and Evaluation in Chemical Education
Teaching Methods and Material Development in Chemical Education
Research Methodology in Chemical Education Ⅰ
Research Methodology in Chemical Education Ⅱ
Teaching and Learning Theories in Science Education
Advanced Analytical Chemistry
Teaching Methods and Development of Chemical Experiments
Special Topics in Instrumental Analysis
Electrochemistry
Advanced Organic Chemistry
Spectroscopy in Organic Chemistry
Special Topics in Organic Reactions
Advanced Inorganic Chemistry
Special Topics in Coordination Chemistry
Organometallic Chemistry
Advanced Physical Chemistry
Advanced Quantum Chemistry
Inquiry Teaching in Chemistry Education
Seminar in Chemistry Education
Special Topics In Physical Chemistry
Special Topics in Chemistry Education
Special Topics in Inorganic Chemistry

Biology Education Courses

Theory and Practice in Biology Education
Research Methodology in Biology Education
Biology Curriculum Study
Evaluation in Biology Education
Seminar in Biology Education
Biology Teaching Methods and Materials
Inquiry Teaching in Biology Education
Data Analysis in Research of Biology Education
Biology Education Using Science History
Systematic Zoology Education
Animal Physiology Education
Ecology Education
Microbiology Education
Molecular Biology Education
Vertebrate Anatomy Education
Genetics Education
Cell Biology Education
Systematic Botany Education
Plant Molecular Genetics Education
Plant Physiology Education
Developmental Biology Education
Environmental Biology Education
Seed Plants Anatomy Education
Immunology Education
Virology Education

Earth Science Education Courses

Advanced Topics in Earth Science Education
Advanced Teaching Materials in Earth Science Education
Teaching Methodology in Earth Science Education
Curriculum & Evaluation of Earth Science
Research Method of Earth science education
Inquiry in Cosmology Education
Advanced Mineralogy and Educational Experiment
Petrogenesis and Educational Experiment
Educational Study in Stratigraphy
Educational Study in Paleontology
Inquiry in Igneous Petrology
Educational Methodology on the History of the Earth
Study on Geological Structure Education
Educational Seminar on Geological Resources
Topics on Geology of Korea
Inquiry in Synoptic Meteorology
Studies on Micrometeorology
Advanced Climatology and Education Practice
Oceanography Education
Geophysics Education
Educational Study on Atmospheric Science
Atmospheric Science in Ocean
Inquiry of Optical Crystallography

Science Gifted Education Courses

Teaching and Learning Theory for the Gifted in Science
Development of Learning Materials for the Gifted in Science
Evaluation of Gifted Education in Science
Curriculum for Gifted in Science
Creativity and Science Education
Study of Teaching Material for Gifted in Science
Research of Gifted Education in Science
Leadership of Gifted in Science
Science History and Creativity
Development of Physics Program for Science Gifted
Development of Chemistry Program for Science Gifted
Development of Biology Program for Science Gifted
Development of Earth Science Program for Science Gifted

Mathematics Education Courses

Teaching of Secondary School Mathematics
Curriculum in Mathematics Education
Psychology of Mathematics Education
Assessment of Mathematics Education
Research Methodology in Mathematics Education
Mathematically Gifted Education
Mathematics Educational Technology
Teaching Analysis in Secondary School
Teaching Algebra in Secondary School
Teaching Geometry in Secondary School
Teaching Probability and Statistics in Secondary School
Teaching Discrete Mathematics in Secondary School
Topics in Algebra and Education
Topics in Analysis and Education
Topics in Geometry and Education
Artificial Intelligence and Mathematics education
Research for the Doctoral Degree Ⅰ
Research for the Doctoral Degree Ⅱ

■ Professors

Physics Education

- Jong-Won Park, Ed.D.
  [Physics Education, jwpark94@jnu.ac.kr]
- Won-Young Hwang, Ph.D.
  Quantum Optics, wyhwang@jnu.ac.kr]
- Jaehyeok Choi, Ed.D.
  [Physics Education, Science Gifted Education, choi@jnu.ac.kr]
- Yung Ho Kahng, Ph.D.
  [Emerging Materials Devices, yhkahng@jnu.ac.kr
- Jeongwoon Hwang, Ph.D.

[Condensed Matter theory, phyjhwang@jnu.ac.kr]

Chemistry Education

- Sang Kwon Lee, Ph.D. [Chemistry Education, sk1213@jnu.ac.kr]
- Soon Hyung Kang, Ph.D. [Analytical Chemistry, skang@jnu.ac.kr]
- Si Kyung Yang, Ph.D. [Organic Chemistry, sky223@jnu.ac.kr]
- Kyoung Chul Ko, Ph.D. [Physical Chemistry, kcko1982@jnu.ac.kr]
- Jonghoon Choi, Ph.D. [Inorganic Chemistry, jonghoon92@jnu.ac.kr]

Biology Education

- Dong-Woog Choi, Ph.D. [Plant Molecular Genetics, dwchoi63@jnu.ac.kr]
- Eunyoung Jeong, Ph.D. [Biology Education, jey@jnu.ac.kr]
- Kyung-Bon Lee, Ph.D. [Developmental Biology, kblee@jnu.ac.kr]
- Jung-Hyun Lee, Ph.D. [Plant Taxonomy/Conservation Genetics, quercus@jnu.ac.kr]
- Su-man Kim, Ph.D. [Immunology, kimsm3324@jnu.ac.kr]

Earth Science Education

- Jong-Hee Kim, Ph.D. [Earth Science Education, earthedu@jnu.ac.kr]
- Suyeon Oh, Ph.D. [Astronomy, suyeonoh@jnu.ac.kr]
- Tae-Won Park, Ph.D. [Atmospheric Science, park2760@jnu.ac.kr]
- Sungshil Kim, Ph.D. [Structural geology, neogeo94@jnu.ac.kr]
- Chang-Pyo Jun, Ph.D. [Paleontology, cpjun@jnu.ac.kr]

Mathematics Education

- Bomi Shin, Ph.D., [Mathematics Education, bomi0210@jnu.ac.kr]
- Chunyoung Oh, Ph.D., [Mathematical Biology and Complex Analysis, cyoh@jnu.ac.kr]
- Sik Lee, Ph.D., [Topology, slee@jnu.ac.kr]
- Sungmo Kang, Ph.D., [Geometry and Topology, skang4450@jnu.ac.kr]
- Yeansu Kim, Ph.D., [Algebra and Number theory, ykim@jnu.ac.kr]
- Injo Hur, Ph.D., [Analysis, injohur@jnu.ac.kr]
- Keunyoung Jeong, Ph.D., [Algebra and Number theory, keunyoung@jnu.ac.kr]

■ Laboratories

Physics Education

- Physics Education Laboratory
- Emerging Materials & Devices Laboratory

Chemistry Education

- Chemistry Education Laboratory
- Photo and Electrochemical Energy materials Laboratory (PEEL)
- Organic Materials Laboratory
- Functional Materials Design Laboratory
- Coordination Chemistry Laboratory

Biology Education

- Plant Molecular Genetics Laboratory
- Biology Education Laboratory
- Animal Embryology Laboratory
- Plant Taxonomy Laboratory
- Immunology Laboratory

Mathematics Education

Contact Information
Phone: +82-62-530-2470
Fax: +82-62-530-2479
E-mail: a4793@jnu.ac.kr
URL: http://mathedu.jnu.ac.kr

Graduate Studies in Mathematics Education

The aim of the Master's course is to educate professionals and researchers so that they can carry out academic investigations into the issues relevant to mathematics education such as teaching and learning, curriculum, psychology, philosophy, technology, and mathematics history. In order to achieve the goals, the curriculum of the course consists of basic and intensive subjects with extensive theories of mathematics education coupled with social sciences and mathematics.

Degree Requirements

Master's degree candidates are required to earn 24 credits. They must also pass a comprehensive exam (3 subjects) and a foreign language exam, and present a thesis proposal before submitting a degree-seeking thesis or dissertation. All students are assigned a supervisor based on research interests and major

What Do You Study?

Teaching Materials for Algebra
Teaching Materials for Analysis
Pedagogy of Mathematics
Teaching Materials for Geometry
Topics in Algebra Ⅰ
Topics in Algebra Ⅱ
Topics in Analysis Ⅰ
Topics in Analysis Ⅱ
Topics in Geometry
Topics in Topology
Topics in Mathematical Statistics
Topic in Discrete Mathematics
Topics in Applied Mathematics
Mathematics Using Computers
Psychology of Learning Mathematics
Ethnomathematics Education
Studies in Mathematics Education
Mathematics Teaching and Learning materials
History of Mathematics and Mathematics Education
Philosophy of Mathematics Education
Teaching of Secondary School Mathematics
Curriculum in Mathematics Education
Psychology of Mathematics Education
Assessment in Mathematics Education
Mathematically Gifted Education
Research Methodology in Mathematics Education
Mathematics Educational Technology
Teaching Analysis in Secondary Schools
Teaching Algebra in Secondary Schools
Teaching Geometry in Secondary Schools
Teaching Probability and Statistics in Secondary Schools
Teaching Discrete Mathematics in Secondary Schools
Topics in Algebra and Education
Topics in Analysis and Education

Topics in Geometry and Education
Topics in Mathematics Education
Artificial Intelligence and Mathematics education

■ Professors

- Bomi Shin, Ph.D.,
  [Professor, Mathematics Education, bomi0210@jnu.ac.kr]
- Chunyoung Oh, Ph.D.,
  [Professor, Mathematical Biology and Complex Analysis, cyoh@jnu.ac.kr]
- Sik Lee, Ph.D.,
  [Professor, Topology, slee@jnu.ac.kr]
- Sungmo Kang, Ph.D.,
  [Professor, Geometry and Topology, skang4450@jnu.ac.kr]
- Yeansu Kim, Ph.D.,
  [Associate Professor, Algebra and Number theory, ykim@jnu.ac.kr]
- Injo Hur, Ph.D.,
  [Associate Professor, Analysis, injohur@jnu.ac.kr]
- Keunyoung Jeong, Ph.D.,
  [Assistant Professor, Algebra and Number theory, keunyoung@jnu.ac.kr]

■ Laboratories

- Highly modernized lecture rooms - Lecture on theory of mathematics and mathematics education using various multimedia
- Computer laboratory
- Practice of mathematical theory and teaching and learning of mathematics
- Materials room for teaching and learning of mathematics - Articles, Reports, Books, Software, Teaching Aids, etc.
- Materials room for gifted education - Materials for gifted education and the practice of gifted education

Korean Education

Contact Information
Phone: +82-62-530-2410
Fax: +82-62-530-2419
E-mail: koreaedu2410@daum.net
URL: http://koredu.jnu.ac.kr

■ Graduate Studies in Korean education

The Ph.D. program in Korean Education was established in March 2002 through collaboration with the Department of Education. Then the Department of Korean Education was established in 2008. Since that time, students have, through the program accumulated, expert and intricate knowledge of Korean language and literature in addition to polishing their teaching and leadership skills.

The mission of the Department is to cultivate educational leaders who will work to improve Korean education in local, national, and international settings. This is accomplished through the promotion of critical thought, research, and reflective practice related to teaching and learning, curricula, instruction, policy, and teacher education.

The master's and doctoral programs focus on both theory and practice, along with appropriate research preparation in a collaborative social context, grounded in the realities of schooling. The diversity of students and teachers in the program is led by research-active faculty members who regularly present at various academic conferences each semester and frequently publish their work in leading scholarly journals. Master's and doctoral students will conduct research and critically examine curricula, means of assessment, and the characteristics and politics of learning environments.

Faculty members in the Department of Korean Education believe that Korean language and Korean culture represent the roots of Korea as a nation, and strengthening the field of Korean education will enable the country to better participate and be fully represented in an increasingly globalized world.

■ Degree Requirements

Students must acquire 24 (M.A.) and 36 (Ph.D.) credit hours in major courses and 3 credit hours in thesis research to complete the course. All students must pass graduation qualification examinations (a foreign language exam and a comprehensive exam) before submitting the final copy of the thesis.

■ What Do You Study?

Studies in Teaching Korean Classical Literature Contents
Studies on Instruction of Old Korean Fiction
Studies on Instruction of Old Korean Essay
Studies on Instruction of Oral Narrative
Studies on Instruction of Oral Poetry

Studies on Issues in Korean Literature
Studies on Curriculum of Korean Instruction
Studies on Teaching Materials of Korean
Studies on Evaluations of Korean Language Ability
Studies on Teaching Methods of Korean
Seminar on Instruction of Korean
Methodology of Instructional Korean Language
Topics in Korean Language Instruction
Studies on Korean Language History
Korean history literature study
Studies on Korean Language Policy
Studies on Instruction of Drama
Studies in Teaching Modern Korean
Seminar on Instruction of Reading
Studies on Instruction of Media Language
Studies on Instruction of Grammar
A Study on Literature and Video Contents
Seminar on Literary Instruction
Topics in Instruction of Literature
Studies on Instruction of Literary Criticism
Studies on Literary Criticism
Studies on Instruction of Literary History
Studies on Comparative Literature
Studies on Instruction of Sociolinguistic
Studies on Instruction of Narrative
Studies on Instruction of Lyric
Studies on Instruction of Sijo & Kasa
Seminar on Instruction of the Korean Criterion
Studies on Instruction of Lexicon
Studies in Teaching Methods for Korean Phonology
Studies on Instruction of the Applied Linguistics
Studies on Instruction of Writer and Writing
Seminar on Instruction of Writing
Studies on Instruction of Middle Korean Grammar & Modern Korean Grammar
Studies on Instruction of the Dialect
Studies on Instruction of Creative Writing
Studies on School Grammar of Korean
Studies in Teaching Sino-Korean Literature
Studies on Instruction of Hyangga & Lyeoyo
Studies on Instruction of Modern Fiction
Studies on Instruction of Modern Poetry
Seminar on Instruction of Speech
Studies on the Hunminjungum
Seminar on the Instruction of Korean

■ Professors

- Cheol Noh, Ph.D.
  [Professor, Modern Korean Poetry Education, nochul@jnu.ac.kr]
- Young-Hee Yang, Ph.D.
  [Professor, Middle Korean, Grammar Education, chamnamu@jnu.ac.kr]
- Keun-Ho Kim, Ph.D.
  [Professor, Modern Korean Novel Education, critik7@jnu.ac.kr]
- Jin-Su Jo, Ph.D.
  [associate Professor, Korean Modern Linguistics, Grammar Education, jojinsu1@jnu.ac.kr]
- Ji-Hyoung Cho, Ph.D.
  [Assistant Professor, Korean Classical Literature, kaisercho@jnu.ac.kr]
- Yun-Mi, Chae, Ph.D.
  [Assistant Professor, Korean Classical Novel, ymchae82@jnu.ac.kr]

Home Economics Education

Contact Information
Phone: +82-62-530-2520
Fax: +82-62-530-2529

■ Graduate Studies in Home Economics Education

The Master's program in Home Economics Education offers systematic coursework in curriculum content and pedagogy related to home economics education while also being grounded in pedagogical and home economics theory. Students can acquire major knowledge suitable for a knowledge-based society and enhance their ability to develop, operate, and utilize home economics education curricula. The program aims to produce home education experts who can contribute to local and national development.

■ Degree Requirements

The Master's program in Home Economics Education at the graduate school consists of a total of 4 semesters. Each academic year is divided into 2 semesters, each spanning 15 weeks of classes. A minimum of 24 credits must be completed, and Research Supervision is a mandatory course. A proposal presentation must be conducted before the commencement of the dissertation defense, which involves a total of 2 defenses. Those who receive approval for their proposal presentation and final defense will be awarded a Master's degree.

■ What Do You Study?

Research Supervision Ⅰ, Ⅱ, Ⅲ
Advanced Educational Theories in Home Economics Education
Research Methods in Home Economics Education
Exploration of Teaching-Learning Method in Home Economics
Issue and Seminar in Home Economics Education
Evaluation of Home Economics Education
Advanced Family Relation Education
Advanced Child Development Education
Advanced Family Welfare Education
Advanced Parent Education
Advanced Culture and Consumption Education
Advanced on Consumer Decision Making Education
Advanced Consumer Information Education
Advanced Home Management Education
Advanced Nutrition Education
Advanced Clinical Nutrition Education
Advanced Food Science Education
Advanced Experimental Cookery Education
Advanced Food Chemistry Education
Advanced Clothing Materials Education
Advanced Culture of Costume Education
Advanced Clothing Pattern Making & Tailoring Education
Advanced Fashion Design Education
Research on Apparel Behavior
Advanced General Housing Education

■ Professors

Home Economics Education

- Lan-Hee Jung, Ph.D.
  [Professor, Food Science, lhjung@jnu.ac.kr]
- Eun-Hah Wee, Ph.D.
  [Professor, Apparel Science, weh@jnu.ac.kr]
- Seo-Yeon Lee, Ph.D.
  [Assistant Professor, Family Studies, sy0929@jnu.ac.kr]
- Seong-Youn Choi, Ph.D.
  [Assistant Professor, Home Economics Education, taeresa@jnu.ac.kr]

Political Science

Contact Information
Phone: +82-62-530-2620
Fax: +82-62-530-2639
E-mail: 5302620@naver.com
URL: http://politics.jnu.ac.kr

Graduate Studies in Political Science

Political science is a discipline that aims to find the best way to realize the best political system in which human beings can manage their lives with happiness and freedom. In this sense, political science is a systematically and theoretically academic major. The political science major is also designed to help students to understand political phenomena and to encourage them to become prudent political participants.

In the Department of Political Science, students are encouraged to contribute to the development of political science with theoretical judgment and applicability on political phenomena in the vortex of reality. Students are also expected to develop various political theories and research methods learned by the undergraduate education.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate and maintain an average grade of B or higher (3.0 based on a 4.5 scale). Ph.D. candidates are required to earn an additional 36 credits and maintain an average grade of B or higher.

Students who fulfill all course requirements are to pass both a comprehensive exam and a foreign language exam. Students then may write and submit a thesis.

What Do You Study?

Ancient and Medieval Political Thoughts (3)
Advanced Comparative Political Theories (3)
Advanced Korean Politics (3)
Advanced Research Method in Political Science (3)
Advanced Studies of Political Theories (3)
American Politics (3)
City and Local Politics (3)
Comparative Congressional Politics (3)
Comparative Political Economy (3)
Comparative Political Parties (3)
Comparative Study of Political Culture (3)
Contemporary Political Thoughts (3)
Cyberpolitics (3)
Election Campaign (3)
European Politics (3)
Gender and Politics (3)
Global Korean Network and International Co-op (3)
Global Politics of the Environment (3)
Globalization and National Reponses (3)
History of International Politics (3)
Human Rights and International Relations (3)
International Relations of North Eastern Asia (3)
International Politics of the Ocean (3)
Japanese Politics (3)

Korean Political Parties (3)
Latin American Politics (3)
Media and Politics (3)
Modern Political Ideologies (3)
Modern Political Thoughts (3)
Nationalism and International Relations (3)
Oriental Political Thoughts (3)
Political Behavior (3)
Political Economy on the International Migration (3)
Quantitative Political Analysis (3)
Readings in International Relations (3)
Research of International Conflicts (3)
Russian Politics (3)
Seminar in International Political Economy (3)
Seminar in Korean Political Economy (3)
Seminar on Comparative Labor Politics (3)
Seminar on South-North Korea Relations (3)
Studies in International Organization (3)
Studies in International Political System & Process (3)
Studies in Korean Foreign Policy (3)
Studies in Korean Unification (3)
Studies in North Korean Politics (3)
Studies in Political Change (3)
Studies in Political Philosophy (3)
Studies of Chinese Politics (3)
Studies of International Politics (3)
Studies on Elections (3)
Studies on Korean Legislative Politics (3)
Study on Peace and War (3)
Theories of National Security strategy (3)
Theories of International Relations (3)
Theories of Modern Democracy (3)
Theory of the State (3)
Topics in Foreign Policy (3)
Topics in Korean Political History (3)
Topics in Korean Political Thoughts (3)
Women and Political Thoughts (3)
Research for the Master's or Doctoral Degree (3)

■ Professors

- Yong Cheol Kim, Ph.D. [Professor, Comparative Politics, and Korean Politics, kimyc@chonnam.ac.kr]
- Kyung-Taek Oh, Ph.D. [Professor, International Politics, ktoh@chonnam.ac.kr]
- Euikyung Park, Ph.D. [Professor, Gender Politics and Political Thoughts, pek2000@chonnam.ac.kr]
- Jung-Kwan Cho, Ph.D. [Professor, Korean Politics, hr23@hanmail.net]
- Jae-Kwan Kim, Ph.D. [Professor, Chinese Politics, jkkim543@chonnam.ac.kr]
- Jae-Gi Kim, Ph.D. [Professor, Diaspora Politics, jgkimm@hanmail.net]
- Eunjung Choi, Ph.D. [Professor, Comparative Politics, ejchoi76@jnu.ac.kr]
- Youngmi Choi, Ph.D. [Associate Professor, International Political Economy,ymchoi@jnu.ac.kr]

Public Administration

Contact Information
Phone: +82-62-530-2250
Fax: +82-62-530-2259
URL: http://jnupa.jnu.ac.kr

■ Graduate Studies in this institution of Public Administration

Today, the world has been confronted by the age of globalization. The importance of localized information has increased. In light of these trends, the Department of Public Administration concentrates its efforts on educating future administrative professionals with comprehensive problem-solving capabilities and task performance abilities through theoretical and practical studies on administrative phenomena. The efforts would equip them with various knowledge and skills, including those in planning, policy making, research analysis, organization management, and office management necessary for administrating governments and solving social problems.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate and maintain an average grade of B or higher (3.0 based on a 4.5 scale). Ph.D. candidates are required to earn 36 credits and maintain an average grade of B or higher.

Students who fulfill all course requirements are to pass both a comprehensive exam and a foreign language exam. Students then may write and submit a thesis.

■ What Do You Study

Study of Examples of NGOs
Police administration
Measuring analysis I
Measuring analysis II
High class administration
Public choice theory
Study of example of public policy
Public enterprise seminar
Bureaucracy theory
Regulation policy theory
Urban planning theory
Marketplace and government
Human resource policy
Personnel matters of administration seminar
Disaster management theory
Electronic Government theory
The government´s budget theory
Government and NGO
Government accounting theory
Policy theory
Policy enforcement theory
Policy formulation theory
Organization and society
Formation design theory
Local finance theory
Local administration theory
Korean administration theory
Administrative reform theory

Administrative ethics
Administrative Theory 2
Administration investigation theory 2
Administrative philosophy
Environmental policy
Environmental policy seminar
History of science of public administration
Administration investigation theory 1
Administrative Theory 1
Administration and law
Korean administration history
Local administration seminar
Chinese administration
Organizational analysis theory
Organization and individual
Study of literature of policy studies
Policy theory special lecture
Policy Analysis and Evaluation
Government knowledge management seminar
The government´s budget seminar
Intergovernmental relation theory
Disaster management policy
Personnel matters of administration
Population and future administration
Policy of (the) city theory
Leadership seminar
Cultural policy
American public administration
Development administration theory
Public health administration theory
Comparative administration theory
Social science methodology 1
Social science methodology 2
Social welfare policy seminar
Social policy theory
Industrial policy theory

■ Professors

- Moon-Soo Bok, Ph.D.
  [Professor, Financial Administration, msbok@chonnam.ac.kr]
- Yung-Chul Lee, Ph.D.
  [Professor, Administration Organization, yunglee@chonnam.ac.kr]
- Sung-Wook Choi, Ph.D.
  [Professor, Administration Organization culture, csw4pa@chonnam.ac.kr]
- Choong-Geun Song, Ph.D.
  [Professor, Public Policy analysis, solip@chonnam.ac.kr]
- Hou-Gyun Kim, Ph.D.
  [Professor, Public Administration Organization Theory, khg1427@chonnam.ac.kr]
- Joon-Kyo Seo, Ph.D.
  [Professor, Urban Policy, seo66386@chonnam.ac.kr]
- Mi-Seung Shim, Ph.D.
  [Professor, Welfare Administration, msshim@chonnam.ac.kr]
- Jung-Ah Bae, Ph.D.
  [Associate Professor, Financial Administration, jb07e@jun.ac.kr]
- Geun-Pil Ryu, Ph.D.
  [Assistant Professor, Public Personnel Administration, gpryu@jnu.ac.kr]
- Dae-Wook Kim, Ph.D.
  [Assistant Professor, Local Administration, kdw@jnu.ac.kr]

Sociology

Contact Information
Phone: +82-62-530-2640
Fax: +82-62-530-2649
E-mail: sociology2640@hanmail.net
URL: http://sociology.jnu.ac.kr/

Graduate Studies in Sociology

Sociology is the study of the relationship between humans and human lifestyles and society. Sociologists study the structure of human society as a conglomerate of people who interact with each other.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on research interests.

What Do You Study?

Classical Sociological Theories (Ⅰ)
Contemporary Sociological Theories (Ⅰ)
Methodology of Social Science
Practice of the Social Statistics
Research for Master's or Doctoral Degree
Classical Sociological Theories (Ⅱ)
Contemporary Sociological Theories (Ⅱ)
Regional Societies
Environmental Sociology
Rural Societies
Sociology of Labor
Organization Theory
Social Movement
Sociology of Family
Information and Society
Social Survey (Ⅰ)
Social Survey (Ⅱ)
Social Change
Comparative Sociology
Seminar on Asian Thought
Regional Studies on Foreign Countries
Art and Society
Seminar on Visual Sociology
Women and Society
Sociology of Economics
East Asian Societies
Political Sociology
Sociology of Knowledge
Sociology of Education
Sociology of Religion
Social Thought
Korean Social Thought
Literature and Society
Social Psychology
Korean Social History
Special Topics in Sociology I
Special Topics in Sociology II
Social Control
Medical Sociology
Sociology of Gender
Culture Theory
Sociology of Human Rights
Social Statistics
Seminar on the Minority
Sociology of Leisure
Seminar on Social Development
Social Welfare
Seminar on Urban Society

Professors

- Soo-Jong Yoon, Ph.D.
  [Professor, Organization, Rural Sociology, sjyoon@chonnam.ac.kr]
- Jun-Woo Kim, Ph.D.
  [Professor, Urban Sociology, Social Statistics, junewoo@chonnam.ac.kr]
- Jung-Gie Choi Ph.D,
  [Professor, Deviance and Social Control, jgchoi@chonnam.ac.kr]
- Julia Jiwon-Shin, Ph.D.
  [Associate Professor, Industrial Sociology, juliashin@jnu.ac.kr]
- Jin-Yeon Kang, Ph.D.
  [Associate Professor, Historical Sociology, Sociological Theory jinyeon@jnu.ac.kr]
- Su-Nam Jung, Ph.D.
  [Assistant Professor, Emotional Sociology, sunam2013@jnu.ac.kr]
- Myeong-Soo Kim, Ph.D.
  [Assistant Professor, Social Statistics, Socil Change, kimmyeongsoo@jnu.ac.kr]

Psychology

Contact Information
Phone: +82-62-530-2650
Fax: +82-62-530-2659
URL: http://psyche.jnu.ac.kr

■ Graduate Studies in Psychology

The Department of Psychology began offering MA programs in 1984 and Ph.D. Programs in 1996. As of 2017, we have conferred 180 MA and 24 Ph.D. degrees. Each year 15-20 new students are enrolled for M.A.s and 4-7 students for Ph.D. programs.

Currently about 70 graduate students in doctoral and Master's Programs are actively engaged in research and educational activities to become professionals in a variety of settings, including academia, government, and industry. The major research areas include: clinical psychology (child psychotherapy, PTSD, etc.), counseling psychology, cognitive-neuropsychology, socio-cultural psychology, learning, psychology of aging, the psychology of sexuality, and industrial/organizational psychology.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate (at least 12 credits from the Psychology Department courses). Ph.D. candidates are required to earn 36 credits (at least 18 credits from the Psychology Department courses). Students not holding a bachelor's degree in psychology are required to take 12 additional credits from the undergraduate psychology programs.

■ What Do You Study?

Both MA candidates who earn 18 credits and Ph.D. candidates who earn 27 credits may take the qualifying exam. Students who are required to earn additional undergraduate course credits may take the exam after earning 30 credits.

Every graduate student is assigned to an academic advisor based on research interests.

History and Systems of Psychology (3)
Seminar in Research Methods (3)
Research Methodology (3)
Qualitative Research Methodology (3)
Practices in Clinical Psychology (3)
Psychopathology (3)
Psychotherapy (3)
Practices of Psychodiagnosis (3)
Counseling Techniques Ⅰ(3)
Counseling Techniques Ⅱ(3)
Group Counseling and Psychotherapy (3)
Special Issues in Counseling Psychology (3)
Behavior Therapy (3)
Advanced Developmental Psychology (3)

Developmental Psychopathology (3)
Psychology of Adolescence (3)
Psychology of Human Sexual Behavior (3)
Adult Development and Aging (3)
Special Issues in Developmental Psychology (3)
Advanced Industrial Psychology (3)
Psychology of Industrial Culture (3)
Special Issues in Industrial Psychology (3)
Organizational Behavior and Job Stress (3)
Psychology of Consuming (3)
Psychology of Advertising (3)
Advanced Survey Methodology (3)
Multivariate Statistics (3)
Advanced Statistics (3)
Design of Psychological Experiments (3)
Advanced Clinical Psychology (3)
Advanced Organizational Psychology (3)
Advanced Physiological Psychology (3)
Psychopharmacology (3)
Practices in Clinical Psychology (3)
Special Issues in Clinical Psychology (3)
Psycho-diagnosis (3)
Practices in Psycho-diagnosis (3)
Cognitive Therapy (3)
Rehabilitation Psychology (3)
Art Therapy (3)
Advanced Psychology of Personality (3)
Advanced Counseling Psychology (3)
Seminar on Psychobiology (3)
Neuropsychological Assessment (3)
Seminar in Biological Psychology (3)
Neuropsychological Assessment (3)
Advanced Psychology of Learning (3)
Neuropsychology (3)
Advanced Cognitive Psychology (3)
Psychology of Memory (3)
Cognitive Science (3)
Cognitive Neuropsychology (3)
Special Issues in Cognitive Psychology (3)
Social Cognition (3)
Psychology of Thought (3)
Seminar in Psychology of Learning (3)
Advanced Psychology of Language (3)
Psychophysics (3)
Advanced Social Psychology (3)
Advanced Methodology in Social Psychology (3)
Special Issues in Social Psychology (3)
Cross-cultural Psychology (3)
Advanced Cultural Psychology (3)

■ Professors

- Gahyun Youn, Ph.D.
  [Professor, Life-span Developmental Psychology, ghyoun@jnu.ac.kr]
- Munsoo Kim, Ph.D.
  [Professor, Physiological Psychology, mkim@jnu.ac.kr]
- Hyun Kyun Shin, Ph.D.
  [Professor, Clinical Psychology, shk2004@jnu.ac.kr]
- Young-Shin Kang, Ph.D.
  [Professor, Counseling Psychology, lavieenrose@jnu.ac.kr]
- Hye jeen Lee, Ph.D.
  [Associate Professor, Clinical Psychology, hjl2013@jnu.ac.kr]
- Samuel Suk-hyun Hwang, Ph.D.
  [Associate Professor, Neuro Psychology, hwansana@jnu.ac.kr]
- Jieun Shin, Ph.D.
  [Assistant Professor, Social Psychology, jieunshin@jnu.ac.kr]
- Soyoung Kim, Ph.D.
  [Assistant Professor, Psychometrics, soyoungkim@jnu.ac.kr]

■ Laboratories

Psychological Testing Lab

This Lab is equipped with various psychological testing tools (K-WAIS-Ⅳ, BGT, MMPI-Ⅱ, MMPI-A, Rorschach, SCL-90R, PAI, Sentence Completion Test, SNSB-Ⅱ), camcorder, and voice recorder.

Cognitive Neuropsychology Lab

This Lab is for EEG/ERP and behavioral researches on cognition, attention, emotion, and language. Main experimental equipment include one electromagnetic-wave shielding booth, three sound- proof experimental booths with control booths, one soundproof room for a group experi- ment, multichannel EEG amplifiers with electrode cap kits (made by BrainProducts), E-Primes with response boxes (made by PST), and PCs with LED monitors.

Clinical Neuropsychology Lab

This Lab is for bio-signal researches on various abnormal cognition and emotion. Main experi- mental equipment include one electromagnetic- wave shielding booth with ta control room, a multi-channel amplifier for physiological indices (e.g., EMG, SCR, HR; made by AD Instruments), Polygraph (made by Grass), MP Data Acquisition System (made by Biopac systems), and PCs with LED monitors.

Behavioral Observation Lab

This Lab is equipped with behavior observation systems including two soundproof booths, video- monitoring systems, and PCs with LED monitors, and a variety of psychological testing tools, making an ideal environment for research on interpersonal interactions or small group dynamics. In addition, researchers conduct behavioral experiments on an individual basis.

Library and Information Science

Contact Information
Phone: +82-62-530-2660
Fax: +82-62-530-2669
URL: http://list.jnu.ac.kr

■ Graduate Studies in Library and information science

The graduate program in Library and Information Science educates students on information theory and the pursuit of scientific knowledge. The studies deal with the ideas and methods of knowledge relation and management and other issues that involve libraries. There is an increasing market for graduate studies in Library Information Systems that has raised the status of librarians, archivists, and academic specialists.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on research interests.

■ What Do You Study?

History of Library and Information Science
Research Methodology in Library and Information Science
Studies in Comparative Library and Information Science
Research for Master's or Doctoral Degree
Studies in Public Libraries
Studies in Textual Bibliography
Studies in DBMS
Multimedia Production
Theory of Comparative Classification
Advanced Indexing and Abstracting
Theory of Cataloging
Advanced Information Science
Theory of Information Retrieval
Studies in Collection Development
Theory of Information Network
Special Topics in Information Related Law
Studies in Information Center Buildings
Advanced Information Center Management
Assessment of Library and Information Center Series
Studies in Information Services
Exercises in Reading Archives
Studies in Korean Calligraphic History
Seminar in Information System Analysis and Design
Advanced Information Service
Advanced Subject Heading
Practice of Korean Paper Restoration
Advanced Information Processing
Information Seeking Behavior
Studies in Comparative Classification
Studies in Theory of Cataloging
Studies in Special Media
Studies in Automatic Cataloging
Special Topics in User Studies
Special Topics in Comparative Library and Information Science
Bibliometrics
Studies in Indexing and Abstracting
Studies in Information Retrieval
Field Work (Ⅰ)
Field Work (Ⅱ)

Archival Preservation
Research for Public Libraries
Special Topics in Meta Data
Studies in Meta Data
Theory of Bibliotherapy
Advanced Scholarly Information
Information Services
Seminar in Information Management
Seminar in Library Policy
Studies in Information Policy
General Study in Information Organization
General Study in Information Management
General Study in Information Culture
General Study in Information Technology
Theory of Archival Management
Technology of Archival Management
Theories in Organization of Archives
Development in Value of Archives
Development in Information Resources
Development in Knowledge Community
Special Topics in Regional Culture Information
Studies in Systematic Bibliography
Studies in Physical Bibliography
Research for Information Center Management
Advanced Studies in Institutional Information Management
Doctorial Seminar in Institutional Information Management
Business Information Management

■ Professors

- Hyun-Jin Hong, Ph.D.
  [Professor, Bibliometrics, hjhong@jnu.ac.kr]
- Jeong-Hyun Kim, Ph.D.
  [Professor, Knowledge Organization, jhgim@jnu.ac.kr]
- Myoung-Gyu Lee, Ph.D.
  [Professor, Information Material Organization, gyulee@jnu.ac.kr]
- Woo-Kwon Chang, Ph.D.
  [Professor, Knowledge Management, wk1961@jnu.ac.kr]
- Ji-Hyeon Kim, Ph.D.
  [Associate Professor, Information Science, jihkim@jnu.ac.kr
- Ji-sue Lee, Ph.D.
  [Assistant Professor, Information Science, jislee@jnu.ac.kr]

■ Laboratories

- LIS Graduate Study Room
- Information Processing Lab
- LIS Library

Communication

Contact Information
Phone: +82-62-530-2670
Fax: +82-62-530-2679
E-mail: 5302670@naver.com
URL: http://comm.jnu.ac.kr

What is Communication?

The discipline of communication focuses on how people use messages to generate meanings within and across various contexts, cultures, channels, and media. The discipline promotes the effective and ethical practice of human communication. Communication is a diverse discipline which includes inquiry by social scientists, humanists, and critical and cultural studies scholars. A body of scholarship and theory about all forms of human communication is the basis for an ever-expanding understanding of how we all communicate.

Department of Communication at Chonnam National University

The Department of Communication aims to prepare its students for careers in a variety of journalism and mass communication fields. It is expected that upon completion of the department's programs, students will be able to write, edit, and produce visuals and design for print and digital media.

The department offers both undergraduate and graduate curricula that mix academics with professional experience to ensure that students are well schooled in writing and editing and in analyzing the issues, conventions, and practices of journalism and mass communication. The departmental requirements give communication majors both guidance and flexibility in their selection of courses. Majors can pursue one of following tracks: journalism, advertising and PR, broadcasting, and cultural studies.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on research interests.

What Do You Study?

Philosophy of Journalism
History of Korean Journalism
International Communication
Studies in Information Society
Studies in Community Journalism
Studies in Mass Culture
Seminar in Advertising
Human Communication
Political Communication
Persuasion in Communication
Culture and Interpersonal Communication
Seminar in Cultural Studies
Seminar in Public Relations
Modern Thoughts and Communication

Media Law
Political Economy of Communication
Multi-Media
Theories of Broadcasting Journalism
Mass Media & Social Movements
Media Policy
Media Management
Media Criticism
Dynamics of Advertising
Public Relations
Media Ethics
Seminar in Newspaper
Seminar in Broadcasting
Visual Communication
Education of Media
Cyber Communication
Modern Communication
Studies in Journalism
Seminar of Culture Management
Audience Studies
Qualitative Methodology
Quantitative Methodology
Speech Communication
Online Journalism
Communication & Gender
Digital media & Society
Seminar in Communication Theory
Crisis Management Theories
CSR Communication
Media Entertainment
Cultural Policy
Culture Creation & Cultural Planning
Culture Economics & Cultural Management
Studies in Digital Culture
Digital Contents & Culture Technology
Culture Contents & Media
Culture Marketing & Public Relations
Macro-Communication Theory
Micro-Communication Theory
Research Design
Understanding of Mass Communication 1
Understanding of Mass Communication 2

■ Professors

- Jong-Won Yoo, Ph.D.
  [Press Philosophy and History, Media Law, Media Ethics, jwyoo@chonnam.ac.kr]
- Young-Khee Kim, Ph.D.
  [Critical Communication, International Communication, Political Communication, ykkim@chonnam.ac.kr]
- Chung-min Joo, Ph.D.
  [New Media, Broadcasting, Media Policy, cmjoo@chonnam.ac.kr]
- Oh-Hyeon Lee, Ph.D.
  [Cultural Studies, Media Criticism, leohhy@hanmail.net]
- Kyun Soo Kim, Ph.D.
  [Journalism, New Media, kimk@jnu.ac.kr]
- Jiyang-Bae, Ph.D.
  [PR, jiyang.bae@gmail.com]

■ Careers

These job titles are not an exhaustive list, but rather, represent the types of positions most widely recruited for.

Account Associate/Manager
Advertising Manager
Associate Producer
Broadcaster

Columnist
Community Relations
Copy Editor
Creative Director
Editor
Event Coordinator
Film Editor
Foreign Correspondent
Investigative Reporter
Journalist
Marketing PR Specialist
Market Researcher
Media Buyer
Media Planner
Media Relations Coordinator
Media Researcher
Newscaster
Newsletter Editor/Creator
News Reporter
Press Secretary
Professor
Program Coordinator
Promotion Manager
Public Information Specialist
Publishing Assistant/Manager
Reporter
Sales Associate
Scriptwriter
Sports Announcer
Teacher
Video Journalist
Website Designer
Writer

Employment areas are in:

Academia
Government
Private Corporations
Non-Profit Organizations
Publicly Traded Corporations

Geography

Contact Information
Phone: +82-62-530-2680
Fax: +82-62-530-2689
URL: https://geo.jnu.ac.kr/

■ Graduate Studies in Geography

Geography as a graduate level, students are required on focusing more on spatial analyses in various topics. Students are also trained for critical thinking, problem solving skill, writing report/publication, and communication/presentation skill. Each student will select his/her own thesis or dissertation topic for graduation based on own interest, particularly on topics that the department is specialized such as economical geography, tourism, urban geography, environmental geography, and GIS.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on their research interests.

■ What Do You Study?

Advanced Cartography
Climate change and natural hazard
Climatic Geomorphology
Computer Cartography with GIS
Development of Environment Thought
Development of Geographic Thought
Environmental change and human
Geographical Philosophy and methodology
Geography of Information and Telecommunication
Geography of Labor Market
Geography of Underdevelopment
Glacial and periglacial Geomorphogy
Land use Analysis
Landforms of Korea
Political geography in the third world
Practice in Geographic information system
Quantitative Analysis in Geography
Remote Sensing
Research in Cultural Geography
Research in Economic Geography
Research in Feminist Geography
Research in Historical Geography
Research in History of Geography
Research in Political Economy of Space
Research in Political Geography
Research In Regional Geography
Research in Rural Geography
Research in Social Geography
Research in Spatial and Regional Development
Research in Tourism Geogarphy
Research in Urban Geography
Resources and Environment
Seminar in Behavior Geography
Seminar in biogeography
Seminar in Cartography
Seminar in ecological geography
Seminar in Field Geomorphology
Seminar in Financial Geography

Seminar in Geography
Seminar in Geography of Korea
Seminar in Geography of North Korea
Seminar in New Geopolitics
Seminar in Population Geography
Seminar in Regioanl Analysis
Seminar in Regional Studies
Seminar of Regional Development Policy
Seminar of Tourism Resources
Seminar on Geographic information system
Soilgeography
Special Area Studies
Special Topics in Applied Geomorphology
Special Topics in Economic Geography
Studies in Location Theory
Study in Coastal Geomorphology
Synoptic Climatology
The city in the Third World
Theory of Urban Planning
Theory of Urban Renewal
Topic in Rural Geography
Topics In Cultural Geography
Topics in Economic Geography
Topics in Environment Conservation
Topics in European Studies
Topics in Feminist Geography
Topics in Geography of North East Asia
Topics in Geography of North Korea
Topics in GIS Application
Topics in Historical Geography
Topics in New Geopolitics
Topics in Regional Transportation and Analysis
Topics in Resional Theory
Topics In Social Geography
Topics in Theory of Industrial Location
Topics in Theory of Regional Development and Planning
Topics in Tourism Development Planning
Topics in Tourism Geography
Topics in Urban Social Geography
Understanding Earth Environmental System and Manage
Urban Economic Geography
Urban Land Economics

■ Professors

- Young-Jin Ahn, Ph.D.
  [Professor, Social-Economic Geography, yiahn@jnu.ac.kr]
- Taesoo Lee, Ph.D.
  [Professor, Environmental Geography, taesoo@jnu.ac.kr]
- Hwa-hwan Kim, Ph.D.
  [Professor, Geographic Information Systems, h2kim@jnu.ac.kr]
- Yena Song, Ph.D.
  [Associate Professor, Transportation geography, Y.song@jnu.ac.kr]
- Gwan-yong Jeong, Ph.D.
  [Associate Professor, Soil Geography, gyjeong@jnu.ac.kr]
- Myung In Ji, Ph.D.
  [Assistant professor, Social Geography, myunginji@jnu.ac.kr]

Anthropology

Contact Information
Phone: +82-62-530-2690
Fax: +82-62-530-2699
E-mail: anthropos@naver.com
URL: http://illyu.jnu.ac.k

■ Graduate Studies in Anthropology

Anthropology is the study of human and its cultures, and is divided into sub-disciplines of cultural anthropology, archaeology, linguistic anthropology, and physical anthropology. Cultural anthropology is a comparative cultural study of the contemporary societies and attempts to understand other societies in terms of their own cultural values and symbols. Archaeology is a study on the origins and developments of cultures, and focuses on the material remains from the past and people with few or no written documents. Linguistic anthropology explores the relationship between language and culture. Physical anthropology studies human evolution and current health issues.

■ Degree Requirements

Students are assigned to advisors based on their research proposals. The assignment is guided by the graduate thesis committee and will be made in the first year of the program. Graduate students in the master level need 15 or more credits and those in the doctoral level need 27 or more credits to graduate. The credits should be fulfilled by anthropology courses. However, doctoral students may take up to six credits of non-anthropology courses under advisor's supervision. Some students may be advised to take as many as four extra courses based on their previous academic background. All graduate students should take a foreign language exam as a part of their qualification for thesis submission. The exam will be taken in English, German, French, Chinese, Classical Chinese or Japanese. International students may take a Korean exam.

The thesis prospectus should be submitted to the department before the completion of four semesters for master students and eight semesters for doctoral students. The prospectus needs approval from the advisor.

Doctoral students must publish two or more research papers before the review of their doctoral thesis begins. The student must be the first or the corresponding author of at least one paper, which is published in a journal of the KCI (Korea Citation Index) level or above.

■ What Do You Study?

Sexuality and Anthropology
History of Anthropological Theories
Ecological Anthropology
Anthropology of Religion
Seminar in Anthropology 1
History and Culture

East Asian Culture
Readings in Oriental Archaeology
History of Archaeology
Field Methods in Archaeology
Research Methods in Archaeology
Seminar in Anthropology 2
Ethnoarchaeology
Special Topics in Prehistoric Archaeology of Korea
Special Topics in Western Archaeology
Special Topics in Oriental Archaeology
Archaeology of Mahan
Special Topics in Historic Archaeology of Korea
Topics of Consumption and Culture
Advanced Regional Studies
Understanding of Festivals and Culture
Documenting the Life through Ethnographic Films
Ethnicity and Nationality
Archaeology of Technology
Research of Honam Culture
Research Methods in Cultural Anthropology
Memory and Representation of Culture
Chinese Culture
Comparative studies in prehistory
Subsistence Economy and Culture
Political Anthropology
Studies in Mahan Culture
Anthropology of Religion
Area Studies of South Asia
Area Studies of Northeast Asia
Urban Anthropology
Political Anthropology
Anthropology of Ethnicity
Economic Anthropology
Minority Culture
Consumption and Culture
Urban Anthropology

■ Professors

- Kyung-Hak Kim, Ph.D.
  [Professor, Cultural Anthropology, khkim@chonnam.ac.kr]
- Sung-Heup Hong, Ph.D.
  [Professor, Cultural Anthropology, sibung@chonnam.ac.kr]
- Ki-Jung Lee, Ph.D.
  [Professor, Visual Anthropology, kjunglee@chonnam.ac.kr]
- Jin-Seon Jo, Ph.D.
  [Professor, Archaeology, jojinseon@hanmail.net]
- Minkoo Kim, Ph.D.
  [Professor, Archaeology, minkoo@jnu.ac.kr]
- Jina Heo, Ph.D.
  [Assistant Professor, Archaeology, jinaheo@jnu.ac.kr]
- Go-Woon Noh, Ph.D.
  [Assistant Professor, Cultural Anthropology, gowoonnoh@jnu.ac.kr]

■ Laboratories

Archaeobotany Lab

Archaeobotany is the study of human and societies through the analysis of plant remains from archaeological sites. The research emphases of this lab include food procurement, domestication, landscape transformation, and social complexity. The types of plant remains studied include macrobotanical (seed and wood) and microbotanical (pollen and phytolith) remains.

Interdisciplinary Program of Global Diaspora Studies

Contact Information
Phone: +82-62-530-2706
Fax: +82-62-530-2714
E-mail: diasporajnu@naver.com
URL: https://diasporabk21.jnu.ac.kr/

Graduate Studies in the Interdisciplinary Program of Global Diaspora Studies

The Interdisciplinary Program of Global Diaspora Studies strives to objectively understand current flows and movements of people while exploring paths for coexistence in a multicultural society. Moreover, through interdisciplinary research, we attempt to achieve a comprehensive understanding of migration phenomena across boundaries and territories, thereby spreading discourses and paradigms through which various members of our society can communicate and coexist. We provide a great variety of educational research programs to enhance the expertise and uniqueness of diaspora research, and we provide the opportunity to explore current issues about migration, offering a practical curriculum with a focus on field research. In addition, our department also provides opportunities to explore various research field and case studies, as well as, new chances for international cooperation in research thanks to our rich international academic network.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on their research interests.

What Do You Study?

Research Design and Methods
Methodology on Diaspora Studies
Theories of International Migration
Health Equity and Cultural Competence
International Migration and Labor Policy
International Migration and Development
International Migration and Social Networks
International Migration and Social Integration
Gender and International Migration
History of International Migration
Global Migration and Transnationalism
Health Issues in a Multicultural Society
Multiculturalism and Citizenship
Business Networks in Ethnic Diasporas
Diaspora Politics
Culture and Health
Cross-Cultural Studies
Anthropology of Ethnicity
Understanding of Asian Societies
Social Welfare Issues for Migrant's Families
Immigration legislation
Migration Policy
Human Rights and International Relations
Identity and Cultural Diversity
Religion and Diversity: Conflict and Coexistence
Studies of China's Ethnic Policy

Local Society and Social Integration
Understanding Multicultural Korea
Studies of Overseas-Chinese
Political Economy on the International Migration
Studies of International Politics
Advanced Research Method in Political Science
Political Behavior
Media and Politics
NGOs and Election Politic in Korea
Qualitative Research Methodology
Sociology of Migration
Women and Society
Feminist Studies
Sociology of Labor
Sociology of Family
International Communication
Digital media & Society
Digital Contents & Culture Technology
Cultural and Interpersonal Communication
Cultural Contents & Media
Studies in Information Society
Research on Education of Cultural Geography
Seminar on Education of Social Geography
Research on Education of Migration and Diaspora
Research on Education of Contemporary Cultural Space
Minority Culture
Research Methods in Cultural Anthropology
Culture Change and Multiculturalism
Globalization and Local Culture
Sexuality and Anthropology
Reading Ethnography
Research Guidance 1
Research Guidance 2
Research Guidance 3
Research Training 1
Research Training 2

■ Professors

- Kyung-Hak Kim, Ph.D.
  [Professor, South Asia Area Studies, Koryoin, khkim@chonnam.ac.kr]
- Su-Jeong Kim, Ph.D.
  [Assistant Professor, Urban and Cultural Geography, sjkim108@jnu.ac.kr]
- Go-Woon Noh, Ph.D.
  [Assistant Professor, Environmental and Ecological Anthropology, gowoonnoh@jnu.ac.kr]
- Kyong-Hwan Park, Ph.D.
  [Professor, Social and Economic Geography, kpark3@gmail.com]
- Julia Jiwon Shin, Ph.D.
  [Professor, Migration Policy, Labor Migration, juliashin@jnu.ac.kr]
- Chung-Min Joo, Ph.D.
  [Professor, New Media, Culture Policy, cmjoo@chonnam.ac.kr]
- Seung-Hyun Choi, Ph.D.
  [Professor, East Asia Migration History, Overseas Chinese Diaspora Research cchx5278@jnu.ac.kr]
- Eun-Jung Choi, Ph.D.
  [Professor, Comparative Politics, Political Movement ejchoi76@jnu.ac.kr]

Interdisciplinary Program of Archival Studies

Contact Information
Phone: +82-62-530-2669
Fax: +82-62-530-0000
E-mail: skyblue@jnu.ac.kr
URL: https://list.jnu.ac.kr/

Graduate Studies in the Interdisciplinary Program of Archival Studies

The Interdisciplinary Program of Archival Studies preserves, discovers, evaluates, and organizes Korea's documentary heritage while systematically collecting, preserving, and managing various records produced during the operation of national, public, and private institutions. The course also provides archival science. It is operated for the purpose of nurturing professional personnel for research and education.

Degree Requirements

Master's degree candidates are required to earn 24 credits. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are assigned an academic advisor based on their research interests. Applicants entering a master's or doctoral program that are not in the same field (library and information science, history, public administration) must complete 30 credits for the master's program and 42 credits for the doctoral program as graduate school graduation credits.

What Do You Study?

Policy evaluation theory
Korea High Publication Research
Information retrieval theory study
The archiving crane research
Korean History Research
Practice of Korean History 1
Practice of Korean History2
Administrative ethics
Electronic government
Record management theory
Record management technology
Record organization theory
Archive value development theory
Information system design special theory
Record Management Methodology
Record Management Policy
Records management law study
The memory tube operative path
Record management seminar
Record Management Sites
Record Information Services Study
Record Management Study Method Special
Record Management theory
Research Traning 1
Research Traning 2
Electronic record management
Record evaluation theory
Digital archiving special theory
History of History Management and System
Local feed research
A Study on the Silence of Chosun Dynasty
Administrative law theory
Administrative information system theory
Record Management Capstone Design

Professors

- Hyun-Jin Hong, Ph.D.
  [Professor, Bibliometrics, hjhong@jnu.ac.kr]
- Jeong-Hyun Kim, Ph.D.
  [Professor, Knowledge Organization, jhgim@jnu.ac.kr]
- Myoung-Gyu Lee, Ph.D.
  [Professor, Information Material Organization, gyulee@jnu.ac.kr]
- Woo-Kwon Chang, Ph.D.
  [Professor, Knowledge Management, wk1961@jnu.ac.kr]
- Ji-Hyeon Kim, Ph.D.
  [Associate Professor, Information Science, jihkim@jnu.ac.kr
- Ji-sue Lee, Ph.D.
  [Assistant Professor, Information Science, jislee@jnu.ac.kr]
- Juhyeon Park, Ph.D.
  [Assistant Professor, Media and Information Literacy, park51566@jnu.ac.kr]

Family Environment and Welfare

Contact Information
Phone: +82-62-530-1320, 1380
Fax: +82-62-530-1329
E-mail: A4952@jnu.ac.kr
URL: http://welfare.jnu.ac.kr

■ Graduate Studies in Family Environment and Welfare

The goal of the Department of Family Environment and Welfare is to contribute to the improvement of family welfare and quality of life through the systematic studies of interaction between humans and family environment. To achieve this goal, the Department provides various academic programs about the basic theories and practice in the fields of human & family environment and also trains professionals who manage to solve special tasks and social problems on family welfare. The department's Major fields consist of family studies & social welfare, consumer science, and child care and counseling. Graduates from our department work as professors and researchers in their major fields, college instructors and professional public workers human service.

■ Degree Requirements

Master's degree candidates are required 24 credits for graduation. Ph.D. candidates are required an additional 36 credits.

Graduate students are also required to pass a comprehensive exam and a foreign language exam, and to submit a thesis or dissertation for approval

■ What Do You Study?

• Consumer science
Seminar in Household Welfare
Family Financial Counseling
Research on Living Cost
Advanced Course in Consumer Economics
Consumer Competencies and Education
Seminar in Consumer Affairs
Advanced Course in Comsumer Protection and Policy
Advanced Course in Consumer Counseling
Advanced Course in Comsumer Decision Making
Theories of Decision Making
Advanced Course in Financial Management
Electronic commerce Theory
Investment Theory
Advanced Course in Korean Households

• Child care and counseling
Play Therapy Supervision Practice
Practice in Play Therapy
Theories of Play Therapy
Theories and Practices of Sandplay Therapy
Assessment and evaluation for children
Research on Day Care Program
Seminar in Child Care
Theories of Parent - Education
Studies in Filial Play Therapy
Psychology Of Personality
Child and Environment
Seminar on Child Development
Advanced the child welfare
Theorise of Child Counseling
Child Psychopathology

Administration and Organization of Early Childhood Education and Care Center
Policies of Early Childhood Education and Care
Art Therapy
Narrative Therapy
Cognitive learning therapy
Theory and Practice of Group Counseling

• Family studies and Social welfare

Advanced Course in Family Relationships
Advanced Course in Family Development
Advanced Course in Family welfare
Family Counseling the case study
Family Life Education and Research
Topics in Family Communication
Advanced Family Therapy and Practice
Advanced Family Studies
Advanced Course in Social Service for the Elderly
Social Problems
Skills and Techniques for Social Work Practice
Social Work Practice Theories
Social Welfare Policy
Social Welfare Research Method
Advanced Social Welfare
Social Welfare Administration
Advanced Seminar in Social Service
Advanced female Welfare
Human Behavior & Social Environment
Advanced Community Welfare
Studies in Korean Family

• Common(Methodology/Statistics)

Advanced Statistics
Research Method 1
Research Method 2
Research and Ethics
Data Analysis

■ Professors

• Eun Sil Hong, Ph.D.
[Professor, Consumer Science, esmail@jnu.ac.kr]
• Jeong Hwa Lee, Ph.D.
[Professor, Welfare for the Elderly, jhlee2@jnu.ac.kr]
• Joo Yeon Lee, Ph.D.
[Professor, Child Development & Child Care, idscot@jnu.ac.kr]
• Jeong Ha Hwang, Ph.D.
[Associate Professor, Social Welfare, jeonghah@jnu.ac.kr]
• Ji yeon Son, Ph.D.
[Associate Professor, Financial literacy & wellbeing, Consumer protection policy, jiyeonson@jnu.ac.kr]
• Yuen Mi Cheon, Ph.D.
[Assistant Professor, Child family studies, ycheon@jnu.ac.kr]
• Ji Eun Kim, Ph.D.
[Assistant Professor, Healthcare, Mental Health Social Welfare, Social Welfare Practice, and Convergence Research, junekim@jnu.ac.kr]

■ Laboratories

- Consumer Financial Management Lab
- Child Counseling Lab
- Family Studies Lab
- Consumer Education Lab
- Family Welfare Lab
- Child Development & Child Care Lab
- Social Welfare Lab

Food & Nutrition

Contact Information
Phone: +82-62-530-1350, 1330
Fax: +82-62-530-1339
E-mail: A0093@jnu.ac.kr
URL: http://fn.jnu.ac.kr

■ Graduate Studies in Food and Nutrition

The graduate program in Food and Nutrition aims to offer outstanding educational and research programs covering fundamental and applied aspects in the field of food science and human nutrition.

The program provides in-depth knowledge of clinical nutrition, nutritional aspects of exercise, sensory and instrumental evaluation of food quality, nutrition and disease interactions, food chemistry, food microbiology, biotechnology, food processing, advanced food analysis, and functional foods. Students are provided with collaborative research opportunities in conjunction with hospitals, industry, and other research institutes. Faculty members have earned a reputation for distinguished education and research programs in the field of food science and human nutrition. Graduates are prepared for scientific and technical careers in educational institutions, government agencies, healthcare facilities, and industries.

■ Degree Requirements

Master's degree students are required to earn 24 credits for graduation. Ph.D. students are required to earn an additional 36 credits.

Graduate students are also required to pass a comprehensive exam and a foreign language exam, and to submit a thesis or dissertation to qualify for graduation.

■ What Do You Study?

Advanced Food Chemistry
Advanced Food Hygiene
Advanced Food Microbiology
Advanced Food Preservation
Advanced Food Processing
Advanced Food Science
Advanced Molecular Nutrition
Advanced Nutrition
Advanced Nutrition Counseling and Education
Advanced Science of Functional Foods
Advanced Statistics for Natural Scientists
Biotechnology of Foods
Carbohydrate Chemistry
Carbohydrate Metabolism
Chemistry in Food Flavors
Clinical Nutrition Therapy
Current Topics in Nutrition
Development of Nutritional Foods to Prevent Frailty
Evaluation of Functional Materials
Experiments in Food and Nutrition
Evaluation of Food
Food Marketing
Food Toxicology
Frailty Prevention
History of Foods
Hormone and Nutrition
Immunity and Nutrition
Lipid Metabolism
Metabolomics
Methodology of Food Sensory Profiling

Mineral Metabolism
Nutrition Diagnosis of the Community
Nutrition in Aging
Nutrition in Infancy and Childhood
Nutritional Physiology
Nutrition Interventions
Nutrition Policy and Communication
Pathophysiology
Physiology of Aging
Phytochemicals
Pigments Chemistry
Practice in Clinical Nutrition
Presentation Skills and Proposal Writing
Protein Chemistry
Seminar in Clinical Nutrition
Seminar in Food Science
Seminar in Nutrition
Sensory and Consumer Science
Smart Technology for Personalized Nutrition
Special topics in Exercise Nutrition
Special topics in Fermentation Sitology
Special topics in Food Rheology
Special topics in Instrumental Analysis
Special topics in Nutritional Biochemistry
Special topics in Nutritional Epidemiology

■ Professors

- Tai-Sun Shin, Ph.D.
  [Professor, Food Analysis, shints@jnu.ac.kr, 062-530-1352]
- Bok-Mi Jung, Ph.D
  [Professor, Food Service, jbm@jnu.ac.kr 062-530-1353]
- Woojin Jun, Ph.D.
  [Professor, Functional Food, wjjun@jnu.ac.kr, 062-530-1337]
- Young-Ran Heo, Ph.D.
  [Professor, Nutrition, yrhuh@jnu.ac.kr, 062-530-1338]
- Hyun-Jung Chung, Ph.D.
  [Professor, Food Chemistry, hchung@jnu.ac.kr, 062-530-1333]
- Young-Shick Hong, Ph.D.
  [Professor, Nutritional Metabolomics, chtiger@jnu.ac.kr, 062-530-1331]
- Jung-Mi Yun, Ph.D.
  [Professor, Nutritional Epigenetics, sosung75@jnu.ac.kr, 062-530-1332]
- Clara Yongjoo Park, Ph D.
  [Associate Professor, Clinical Nutrition, parkcy@jnu.ac.kr, 062-530-1354]
- Ok-Kyung Kim, Ph.D.
  [Associate Professor, Nutritional Biochemistry, 20woskxm@jnu.ac.kr, 062-530-1334]
- Mina Kim, Ph.D.
  [Assistant Professor, Sensory and consumer science, makim@jnu.ac.kr, 062-530-1336]
- Dong-Hyun Jung, Ph.D.
  [Assistant Professor, Food microbiology, dhjung@chonnam.edu, 062-530-1335]

■ Laboratories

- Food Analysis Lab
- Cookery Science Lab
- Functional Food Lab
- Applied Nutrition Lab
- Food Chemistry Lab
- Metabolomics Lab
- Nutritional Epigenetics Lab
- Clinical Nutrition Lab
- Nutritional Biochemistry Lab
- Sensory science Lab
- Food Microbiology Lab

■Facilities
- Experimental Foods Lab
- Food and Nutrition Lab
- Nutrition Counseling Lab
- Nutrition Assessment Lab
- Cell Culture Lab
- Instrumental Analysis Lab
- Animal Lab
- Sensory Evaluation Lab

Clothing & Textiles

Contact Information
Phone: +82-62-530-1340
Fax: +82-62-530-1349
E-mail: a0565@jnu.ac.kr
URL: http://clothing.jnu.ac.kr/

■ Graduate Studies in Clothing and Textiles

The Department of Clothing and Textiles offers both Master's and Ph.D. degree programs in Textile Science, Social Psychology of Clothing, Fashion Marketing, Clothing Ergonomics, Fashion Design, Clothing Engineering, and Traditional Korean-Western Costume. These programs are designed to prepare students for becoming scholars (careers in research and teaching) in higher education as well as challenging careers in a variety of fields, including fashion industry and government.

■ Degree Requirements

The program requirements for the Master's degree program consist of course work (minimum 24 credits including 15 credits from the Dept. of Clothing & Textiles), satisfactory performance on the qualifying examinations (three subjects), and thesis research. Ph.D. candidates are required to earn a minimum of 36 credits (24 credits from the Dept. of Clothing & Textiles) beyond the Master's degree. Satisfactory performance on the qulifying examinations (three subjects) and dissertation research are required.
All graduate students must pass a foreign language exam.

■ What Do You Study?

3D Design of Virtual Clothing
Active Sports Wear Design
Advanced Consumer Behavior in Fashion
Advanced Course of Dyeing
Advanced Fashion Textiles
Advanced Marketing Strategy for Fashion Business
Advanced Textile Evaluation
Advanced Textile Science
AI Fashion
Art Wear Design Workshop
Capstone Design for Fashion Start-up
Clothing Ergonomics
Clothing Sizing System
Clothing production research
Creative Design & Venture Studio
Design of Korean Traditional Costume
Digital Clothing Workshop
Digital Fashion and Research
Ethnic Art Wear Design
Fashion and Art Collaboration
Fashion and Engineering
Fashion brand management
Fashion Color Special Theory
Fashion Design Studio for Sustainability
Fashion Journalism
Fahion Media Criticism
Fashion Product Design Studio
Folk Costume Field Workshop
Functional Textile System Research
Global Outsourcing and Technical Design
History of 20th Century Fashion

Intergrated fashion brand communication
Intellectual Properties and Fashion Startup
IT&Fashion Design Convergence Workshop
Korean Clothing Design Planning
Natural Dyeing Research
New Media Design for Fashion
Omni-channel fashion business
Process design for smart luminescent textile
Research for Fashion Design Inspiration
Research in Dyeing Techniques and Design
Research in Fork Costume (Ⅰ)
Research Methods in Clothing & Textiles
Research Methods in Clothing Construction
Seminar in Clothing
Seminar in History of Oriental Costume
Seminar in Special Topics of Hanbok
Smart healthcare wear design
Social-Psychology of Clothing
Special assignment in clothing science
Special Problems in Textiles
Special Topics in Fashion Retailing
Special Topics in Smart Textiles
Study in Technotextiles & Application
Study in Textile Design
Study in Up-cycling Fashion Design
Study on Fashion Designers and Collections
Sustainability & Fashion Industry
Sustainable Fashion Textiles
Technical Wear Design
Textile Science Seminar
Theory of Global Fashion Cultural Industry Seminar
Topics in Aesthetics of Costume
Topics in History of Korean Costume (Ⅰ)
Topics in History of Korean Costume (Ⅱ)
Topics in History of Western Costume & Culture (Ⅰ)
Topics in History of Western Costume & Culture (Ⅱ)
Topics in Image Making
Traditional Costume of Korean Culture&Design Idea
Understanding of Traditional Clothing Works

■ Professors

- Soojeong Bae, Ph.D.
  [Professor, Fashion Design, sjbae@jnu.ac.kr]
- Misuk Lee, Ph.D.
  [Professor, Fashion Design, ms1347@jnu.ac.kr]
- Wolhee Do, Ph.D.
  [Professor, Clothing Engineering, whdo@jnu.ac.kr]
- Eunjung Kim, Ph.D.
  [Professor, Traditional Costume, kimej@jnu.ac.kr]
- Sookyoung Ahn, Ph.D.
  [Professor, Fashion marketing] skahn@jnu.ac.kr]
- Seokho Cho, Ph.D.
  [Professor,Wearable Electronics jsh818@jnu.ac.kr]

■ Laboratories

- Fashion Design Research Lab
- Fashion Design Lab
- Apparel Technical Design Lab
- Clothing Engineering Lab
- Traditional Costume Research Lab
- Fashion Marketing Research Lab
- Wearable Electronics and Smart Textile Lab

Interdisciplinary Graduate Program of Social Welfare

Contact Information
Phone: +82-62-530-1320, 1380
Fax: +82-62-530-1329
E-mail: A0250@jnu.ac.kr
URL: http://welfare.jnu.ac.kr

■ Goals of the Interdisciplinary Graduate Program of Social Welfare

The Interdisciplinary Graduate Program of Social Welfare has the following aims:

- Reeducate field social workers and educate graduate students to acquire academic and practical knowledge and skills related to social welfare through an interdisciplinary approach among the Departments of Family Environmental Welfare, Nursing, Sociology, and Public Administration.
- Train students to become highly-skilled, competent, and ethical practitioners who will provide leadership for the profession of social work within the local community and nationally.
- Contribute to the development of social welfare in the local community and the country by both creating knowledge on the prevention and amelioration of social problems and developing practical application programs.

■ Degree Requirements

- Master's degree candidates are required 24 credits for graduation.
- Ph. D. candidates are required an additional 36 credits for graduation.
- Graduate students are also required to pass a comprehensive exam and a foreign language exam, and to submit a thesis or dissertation for final approval.

■ What Do You Study?

Advanced Child Health Nursing and Practice
Advanced Child welfare
Advanced Community Mental Health Nursing and Practice
Advanced Data Analysis
Advanced Family Communication
Advanced Family Development
Advanced Family Relationships
Advanced Family Therapy and Practice
Advanced Family welfare
Advanced Rehabilitation Nursing and Practice
Advanced Social Service for the Elderly
Advanced Social Welfare
Advanced Welfare Finance
Advanced Welfare for Women
Case Management in Social Welfare
Case Study on Family Counseling
Child Psychopathology
Community Welfare & Practice
Cultural Diversity and Social Welfare
Data Analysis for Social Welfare
Ethics and Philosophy in Social Welfare
Family Life Education and Research
Family Nursing and Family Therapy
Household Welfare Research
Housing Welfare
Human Behavior and Social Environment
Human Rights and Social Welfare
Information Society and Welfare
Introduction to Social Welfare

Mental Health and Social Welfare
Poverty and Social Welfare
Principle and Practice of Group Counseling
Program Development and Evaluation
Public Home Management Research
Qualitative Research
Research Methods for Social Welfare
Research on Living Cost
Research Training 1
Research Training 2
School Social Work
Seminar on Child Development
Seminar on Social Welfare
Seminar on Social Welfare Administration
Seminar on Social Welfare Policy
Skills for Social Work Practice
Social Problems
Social Security
Social Welfare Administration
Social Welfare for the Disabled
Social Welfare History
Social Welfare in Criminal Justice System
Social Welfare in Mental Health
Social Welfare Legal System and Practice
Social Welfare Policy
Social Welfare Practicum
Social Welfare with Youths
Social Work in Health Care
Social Work Practice Theories
Studies in Korean Family
Theory of Child Counseling
Theory of Human Behavior
Theory of Human Resource Development
Theory of Welfare State
Volunteer and Social Welfare
Women and Labor

■ Professors

- Jeonghwa Lee, Ph.D.
  [Professor, Welfare for the Elderly, jhlee2@jnu.ac.kr]
- Jeong Ha Hwang, Ph.D.
  [Professor, Social Welfare, jeonghah@jnu.ac.kr]
- Eun Sil Hong, Ph.D.
  [Professor, Consumer Science, esmail@jnu.ac.kr]
- Joo-Yeon Lee, Ph.D.
  [Professor, Child Development & Child Care, idscot@jnu.ac.kr]
- Jiyeon Son, Ph.D.
  [Associate Professor, Financial Literacy & Wellbeing, Consumer Protection Policy, jiyeon@jnu.ac.kr]
- Yuen Mi Cheon, Ph.D.
  [Assistant Professor, Child Family Studies, Child Counseling, ycheon@jun.ac.kr
- Ji Eun Kim, Ph.D.
  [Assistant Professor, Healthcare, Mental Health Social Welfare, junekim@jnu.ac.kr]
- Jungsun Kim, Ph..D.
  [Professor, Gerontological Nursing, kjs0114@jnu.ac.kr]
- Youn Kyoung Kim, Ph.D.
  [Associate Professor, Community Health Nursing, ykim0307@jnu.ac.kr]
- Junggi Choi, Ph..D.
  [Professor, Korean Social History, Social Movement Theory, jgchoi@jnu.ac.kr]
- Sunam Joung, Ph..D.
  [Professor, Sociology of Emotions, Sociology of Culture, sunam2013@jnu.ac.kr]
- Mi-Seung Shim, Ph..D.
  [Professor, Welfare Administration, Welfare Policy, msshim@jnu.ac.kr]
- Hougyun Kim, Ph..D.
  [Professor, Public Administration and Organization Theory, khg1427@jnu.ac.kr]

■ Laboratories

- Social Experiment Lab
- Family Welfare/ Welfare for the Aged Lab
- Health & Social Welfare Research Lab
- Consumer Financial Management Lab
- Consumer Education Lab
- Child Development Research Lab
- Child Counseling and Research Lab

Veterinary Medicine

Contact Information
Phone: +82-62-530-2806
Fax: +82-62-530-2809
URL: http://vetmed.jnu.ac.kr

■ Graduate Studies in Veterinary Medicine

The College of Veterinary Medicine offers graduate studies leading to the Master of Science and Doctor of Philosophy degrees in Veterinary Medical Sciences to prepare students for careers in biomedical science. The professional DVM Program is not a graduate degree program, and applications are handled separately from the graduate program. The graduate program provides training in basic and applied veterinary medical research for qualified students with a baccalaureate degree or a DVM or equivalent degree.

The major areas of concentration in graduate studies are administered by three departmental programs: Basic Veterinary Science, Preventive Veterinary Science and Veterinary Clinical Sciences. Within these departmental programs, training includes appropriate coursework and research in areas such as Comparative Anatomy and Physiology, Pharmacology, Biochemistry/Molecular Biology, Comparative Toxicology, Immunology, Pathology, Parasitology, Epidemiology, Infectious Diseases, Veterinary Internal Medicine, Surgery, Theriogenology, Veterinary Medical Imaging and Laboratory Medicine.

The educational direction of the College embraces teaching knowledge and techniques to produce highly-trained veterinarians, for service in advanced basic medical sciences, clinics, and public health areas.

■ Degree Requirements

The length of coursework for graduate programs shall be 2 years or more for the master's degree program, 3 years or more for the Ph.D. Program, and 4 years or more for the joint master's and Ph.D. degree program.

Master's degree candidates are required to earn 24 graduate and Ph.D. candidates are required to earn 60 graduate credits including credits already earned for the master's degree. Students may not take more than 12 credits a semester. A grade of C or better is acceptable in the master's degree program, and a grade of B or better in the Doctoral Program.

■ What Do You Study?

Adult Stem Cells
Advanced Medical Informatics
Advanced Molecular Biology
Advanced Morphological Techniques

Advanced Public Health
Advanced Veterinary Anatomy
Advanced Veterinary Bacteriology
Advanced Veterinary Biochemistry
Advanced Veterinary Clinical Pathology
Advanced Veterinary Embriology
Advanced Veterinary Histology
Advanced Veterinary Pharmacology
Advanced Veterinary Reproduction and Obstetrics in Large Animals
Advanced Veterinary Surgery
Advanced Veterinary Toxicology
Advanced Veterinary Virology
Advanced Wild Animal Disease
Animal Breeding and Infertility
Antibody Engineering
Applied Veterinary Anatomy
Avian Anatomy
Avian Immunology
Avian Pathology
Avian Theriogenology
Bacterial Disease of Poultry
Bacterial Diseases of Domestic Animals
Biochemical Analysis of Cells
Biochemical Methods
Biotechnology and Veterinary Medicine
Bovine Disease
Canine and Feline Clinical Reproduction and Obstetrics
Canine Disease
Cell Aging
Cell Imaging
Cell Membrane Biology
Cell Physiology
Cell Signaling
Cell Therapy
Cells
Cellular Immunology
Cellular Neurophysiology
Clinical Immune Diseases
Companion Animal Virus Infectious Disease
Comparative Veterinary Histology
Culture of Animal Cells
Current Diagnostic Techniques of Avian Diseases
Diagnostic Ultrasonography in Large Animals
Diagnostic Ultrasonography in Small Animals
Domestic Animal Virus Infectious Disease
Embryo Stem Cells
Embryo Transfer
Environmental Microbiology
Environmental Toxicology
Equine Medicine
Experimental Animal Disease
Experimental Animal Theriogenology
Farm Animal Theriogenology
Farm Animal Vaccinology
Feline Disease
Fish Morphology
Fish Pathology
Fish Vaccinology
Food Hygiene
Food-borne Parasitic Diseases
Herd Health
Herd Reproductive Management
Humoral Immunology
Large Animal Anatomy
Large Animal Dermatology
Large Animal Surgery
Male Theriogenology
Management of Laboratory Animals
Metabolism of Energy in Body
Methodology in Animal Experiments
Methods in Molecular Biology
Methods in Toxicology
Microbial Engineering
Molecular Endocrinology
Molecular Virology
Morphology of Laboratory Animals
Mucosal Immune Vaccinology
Neurotoxicology
Pathology of Laboratory Animals
Pathology of Zoo and Wildlife
Pathophysiology
Poultry Vaccinology

Research for Master's or Doctoral Degree
Safety Evaluation of Chemicals
Sheep and Goat Disease
Small Animal Anatomy
Small Animal Dermatology
Small Animal Orthopedics
Small Animal Surgery
Swine Disease
Swine Pathology
Target Organ Toxicology
Techniques in Experimental Parasitology
Therapeutic Biology
Toxicologic Mechanism
Trends of Recent Vaccine Development
Veterinary Alimentary Pathology
Veterinary Anesthesia
Veterinary Arthropodology
Veterinary Chemotherapy
Veterinary Clinical Diagnostics
Veterinary Clinical Pharmacology
Veterinary Dentistry
Veterinary Dermatopathology
Veterinary Diagnostic Pathology
Veterinary Endocrinology and Reproduction
Veterinary Endodontics
Veterinary Epistemology
Veterinary Helminths
Veterinary Immunopathology
Veterinary Molecular Pathology
Veterinary Neuroanatomy
Veterinary Neuropathology
Veterinary Neurosurgery
Veterinary Oncopathology
Veterinary Operative Surgery
Veterinary Ophthalmology
Veterinary Periodontics
Veterinary Pharmacology of Autonomic Nervous System
Veterinary Pharmacology of Central Nervous System
Veterinary Protozoology
Veterinary Respiratory Pathology
Veterinary Surgery of Abdominal Organs
Veterinary Surgery of Cardiovascular System
Veterinary Surgery of Obstetrics
Veterinary Surgery of Urogenital Organs
Veterinary Topographic Anatomy
Veterinary Toxicopathology
Veterinary Vaccinology
Viral Disease of Poultry
Viral Immunology
Wild Animal Theriogenology
Zoonosis and Exotic Disease

■ Professors

- Sung-Ho Kim, Ph.D.
  [Professor, Vet. Anatomy,
  shokim@chonnam.ac.kr]
- Sung-Shik Shin, Ph.D.
  [Professor, Vet. Parasitology,
  sungshik@chonnam.ac.kr]
- Chun-Sik Bae, Ph.D.
  [Professor, Vet. Surgery,
  csbae210@chonnam.ac.kr]
- Bong-Ju Lee, Ph.D.
  [Professor, Vet. Infectious,
  Diseases, bjlee@chonnam.ac.kr]
- Kyoung-Oh Cho, Ph.D.
  [Professor, Avian Diseases,
  choko@chonnam.ac.kr]
- Tae-Ho Ahn, Ph.D.
  [Professor, Vet. Biochemistry,
  thahn@chonnam.ac.kr]
- Jong-Choon Kim, Ph.D.
  [Professor, Vet. Toxicology,
  toxkim@chonnam.ac.kr]
- Seong-Soo Kang, Ph.D.
  [Professor, Vet. Surgery,
  vetkang@chonnam.ac.kr]
- Chang-Jong Moon, Ph.D.
  [Professor, Vet. Anatomy,

mooncc@chonnam.ac.kr]
- Guk-Hyun Suh, Ph.D.
  [Professor, Vet. Medicine, ghsuh@chonnam.ac.kr]
- Tae-Jung Kim, Ph.D.
  [Professor, Vet. Public Health, tjkim@chonnam.ac.kr]
- Sang-Ik Park, Ph.D.
  [Professor,Vet Pathology, sipark@chonnam.ac.kr]
- Jong-Hwan Park, Ph.D.
  [Professor, Lab. Animal Medicine, jonpark@chonnam.ac.kr]
- In-Sik Shin, Ph.D.
  [Associate Professor, Vet. Pharmacology, dvmshin@chonnam.ac.kr]
- Dong-Il Kim, Ph.D.
  [Associate Professor, Vet. Physiology, kimdi@chonnam.ac.kr]
- Chang-Min Lee, Ph.D.
  [Associate Professor, Vet. Laboratory, cmlee1122@jnu.ac.kr]
- Woon-Sung Na, Ph.D.
  [Associate Professor, Vet. Virology, wsungna@jnu.ac.kr]
- Se-Eun Kim, Ph.D.
  [Associate Professor, Vet. Surgery, ksevet@jnu.ac.kr]
- Joong Sun Kim, Ph.D.
  [Associate Professor, Vet. Anatomy, centraline@jnu.ac.kr]
- Park,Seung Jo, Ph.D.
  [Assistant Professor, Vet. Diagnostic imaging, psc1237@jnu.ac.kr]
- Jun-Gyu Park, Ph.D.
  [Assistant Professor, Vet. Surgery, kingsalt@jnu.ac.kr]
- Son Young-Bum
  [Assistant Professor, Vet. Obstetrics, ybson@jnu.ac.kr]
- Yoo Dae Sung, Ph.D.
  [Assistant Professor, Vet. Public Health, shanuar@jnu.ac.kr]
- Ha-Jung Kim, Ph.D.
  [Associate Professor, Vet. Medicine, kimhj614@chonnam.ac.kr]

■ Laboratories

Avian Diseases Lab

The multi-disciplinary study on avian diseases regards not only poultry but also pets and wildlife birds. Our mission is the education of undergraduate, graduate, professional, and post-doctoral students in effective disease control, precise prevention strategies, and rapid and accurate diagnostic methods to meet current and future societal needs for avian medicine and public health.

▪Main Research Interests:

The major research interest focuses on the cellular virology of viral enteritic and viral hepatitis, and its correlation with bile acids in both humans and animals.

▪Main Research Interests:

The major research interest focuses on the cellular virology of viral enteritic and viral hepatitis, and its correlation with bile acids in both humans and animals.

Veterinary Anatomy Lab I

The Veterinary Anatomy Lab focuses on and researches the structure of animals. Basic data is collected through the approaches to macroo and micro-morphological study to understand the normal animal body.

▪Main Research Interests:

1) Biological dosimetry of radiation
2) Radioprotection

3) Radioecology

Veterinary Anatomy Lab Ⅱ

▪Main Research Interests:

1) Neuroimmunology
2) Infrared sensory systems
3) Testicular ischemia
4) Learning and memory

Veterinary Biochemistry Lab

Veterinary biochemistry is a field of life sciences that studies various life phenomena in animals by physical and chemical methods. It forms the foundation of all other veterinary medicine.

In particular, veterinary biochemistry examines molecular structures, functions, and metabolisms of macromolecules in animals, and helps to clarify other veterinary sciences on a molecular level. Furthermore, this subject provides the theoretical basis to be applied to veterinary preventive medicine and other clinical fields.

▪Main Research Interests:

1) Development of early diagnostic methods for liver diseases using cytochrome P450 family as a biological marker.

2) Establishment of a database for cytorome P450 proteomes in disease-induced animal models.

3) Development of cytochrome P450 protein micro-arrays using cytomimetic phosphopid mono-layers.

4) Study of the interaction between cytochrome P450 family and molecular chaperones.

5) Development of efficient production methods of recombinant proteins using the regulation of protein translocation mechinaries in Escherichia coli.

Veterinary Infectious Disease Lab

The Lab researches the characterization and analysis of causative agents of infectious animal diseases and effective methods of preventing and controlling infectious animal diseases caused by viruses or bacteria.

▪Main Research Interests:

1) Application of molecular and immunological methods to epidemiological studies and analysis of causative agents of infectious diseases of animals.

2) Development of rapid and accurate diagnostic methods by application of molecular and serological methods.

3) Application of modern vaccine technology to prevent infectious diseases that cause economic problems.

4) Research on molecular immunology to enhance the immune response of vaccines by activation of host immune systems.

Veterinary Medicine Lab Ⅰ

This Lab is divided into five units containing clinical recording, relationships between veterinarian and owner, drawing up prescriptions, methods of drug administration, and routes of administration for therapeutic agents. The courses also consider physical examination and diagnostic and therapeutic techniques for small and large animal diseases.

▪Main Research Interests:

1) Milk quality of dairy goats
2) Udder characteristics of Saanen dairy goats
3) Disease in the dairy goats
4) Alcohol positive milk in dairy goats
5) Disease of mammary gland in dogs

Veterinary Medicine Lab Ⅱ

This Lab teaches skilled clinical techniques. It considers the handling and restraint of animals, classic clinical diagnosis for major organs, methods of sampling for diagnosis, and field practice of herd health. The final goal is for students to be capable to diagnose animal diseases.

▪Main Research Interests:

1) Production and Metabolic disease in dairy cattle and Hanwoo

2) Mastitis in dairy cows

3) Prevention of neonatal disease and acquire of immunity in neonatal

4) Heard health management

5) Complementary and alternative veterinary medicine

Veterinary Microbiology Lab

This Lab's current research work is focused on the respiratory and enteric diseases in swine and poultry and on the immunological responses to biologically activity materials. The Lab uses luminometers and flow cytometers to assay phagocyte activity and conducts lymphocyte analysis.

▪Main Research Interests:

1) Development of vaccines using specific gene deletion

2) Studies on Mycoplasmal disease

3) Immunological assessment on the biological activity materials for industrial animals

Veterinary Theriogenology Lab Ⅰ

Reproductive performance is one of the most important factors in determining the profitability and longevity of animals. Some animals have a longer postpartum interval and may still be acyclic during the period when they should be inseminated. Average individual and herd fertility is far from the reproductive and economic optimum. Therefore the Lab is concerned with improving reproductive efficiency and control of diseases in animals.

▪Main Research Interests:

1) Understanding and confirming reproductive status using vaginal cytology, reproductive hormones (Progesterone, Estrogens) analysis and ultrasonography (optimal breeding and mating time, initial detection of gestational features, prediction table of parturition day, postpartum period).

2) Differential diagnosis and treatment of reproductive dysfunctions using reproductive hormones (Progesterone, Estrogens) analysis and ultrasonography (pregnancy diagnosis, abortion, ovarian and uterine disorders, examination of reproductive organs).

Veterinary Theriogenology Lab Ⅱ

▪Main Research Interests:

1) Differential diagnosis and treatment of reproductive dysfunctions using ultrasonography and reproductive hormones (Progesterone, Estrogens) analysis in farm animals.

2) Understanding and confirm of reproductive status using vaginal cytology, reproductive hormones analysis and ultrasonography in small animals.

Veterinary Parasitology Lab

The Veterinary Parasitology Lab is committed to the clinical diagnosis and consulting of parasitic diseases of pets and livestock animals of Korea, as well as teaching veterinary students parasitology. Particular research interests lie in study of the dirofilariasis of dogs and cats, zoonotic parasites, and wild animal diseases.

▪Main Research Interests:

1) Canine and feline dirofilariasis

2) Parasitic diseases of wild animals

3) Zoonotic parasites of pet and wild animals

4) Elecromagnetic biology in infection and immunity

Veterinary Pathology Lab Ⅰ

The Department of Veterinary Pathology is primarily responsible for running undergraduate courses (5) in the College of Veterinary Medicine, and the graduate courses (12) in the Graduate School. This Lab has been actively providing qualified diagnostic services on animal diseases as requested mainly from the Chonnam National Veterinary Education Teaching Hospital, small

animal clinics, field veterinarians, practitioners, farmers, city zoos, and animal shelters.

▪Main Research Interests:

1) Diagnostic services of animal diseases

2) Development of diagnostic methods and pathogenesis of viral diseases in ruminants

3) Development of vaccine and pathogenesis of zoonotic viral diseases in animals

4) Clinicopathological approaches to zoonotic and contagious infections in small animals

Veterinary Pathology Lab II

The Department of Veterinary Pathology is primarily responsible for running the undergraduate courses in the College of Veterinary Medicine and graduate courses in the Graduate School. Recent research interests are focused on the development of diagnostic tools using DNA chips, and protein chips and multiplex PCR for important socio-economical diseases such as enteric diseases of swine fever virus infection, bovine tuberculosis, and PMWS.

▪Main Research Interests:

1) Development of DNA chips and protein chips system for the diagnosis of animal diseases

2) Development and application of PCR based methods (RT-PCR, real-time PCR) for the diagnosis of zoonotic diseases

Veterinary Pharmacology Lab

Veterinary Pharmacology is the study of the properties of chemicals used as drugs for therapeutic and diagnostic purposes in veterinary medicine. Students study the scientific basis of chemicals and practice drug therapy in this Lab. They also learn experimental techniques to measure smooth muscle contractilities and systemic blood pressure.

▪Main Research Interests:

1) Mechanism of the smooth muscle contraction

2) Cardiovascular effects of drugs

3) Toxic effects of drugs

Veterinary Physiology I

Physiology is a branch of biology that deals with function and coordinated activities of cells, tissues, and organs. The study of physiology offers students not only the satisfaction of knowing something about the workings of the body, but it also provides students with a deep, perhaps even profound, understanding of it. The study of physiology broadens students' scientific interests and widens the scope of their outlook.

▪Main Research Interests:

1) Regulatory functional mechanisms of embryonic stem cells

2) Hormonal regulation of cell function

3) Measurement of physiological parameters of bio-organs

Veterinary Physiology II

This Lab researches physiological functions of animals as it relates to mechanisms from molecular to body levels. We aim to establish basic conceptions of normal physiology to understand the study of the abnormal function of the body. Thus, veterinary physiology is introduced first in the veterinary curriculum.

▪Main Research Interests:

1) Molecular mechanism of metabolic syndrome

2) Pathogenesis of nephropathy under abnormal conditions

3) Study of the regulation of growth factors in vivo and in vitro

Veterinary Public Health Lab

The principal task of veterinary public health is the protection of human health by the applications of veterinary medicine. This Lab was established to introduce the fields of research, knowledge, training, and education of veterinary public health. Veterinary public health comprises many aspects

of veterinary science and the Lab covers the role of veterinarians and other related professionals in the protection of human health through the safe production of foods of animal origin, control of zoonotic diseases, and environmental contamination.

▪Main Research Interests:

1) Diagnosis, surveillance, and elimination of zoonoses

2) Quality and safety assurance in food production (meat, milk, and eggs)

3) Genetic characterization of Jindo for preservation of the species' purity

4) Development of recombinant protein vaccine

Veterinary Surgery Lab I

The Department of Veterinary Surgery researches and teaches surgical diseases and anesthesia in animals. General surgery includes the general principles of anesthesia, treatment of shock, presurgical management, aftercare of patients, wound healing, and various surgical diseases which occur in animals.

The Lab has special experience in a full range of surgery related to the gastrointestinal system, respiratory system, cardiovascular system, urogenital system, nervous system, and muscular-skeletal system, as well as general surgical techniques. In clinical rotations, students will experience physical examination and diagnosis, surgical treatment, and management during surgery in real clinical situations.

▪Main Research Interests:

1) Wound healing and nerve regeneration

2) Osteoporosis and osteoporosis related fractures

3) Orthopedic and soft tissue surgery

4) Polycystic Ovary (PCO)

Veterinary Surgery Lab II

▪Main Research Interests:

1) Oral mucosa wound healing

2) Inhibition of plaque formation and gingivitis

3) Arthritis diagnosis and therapeutic measures

Veterinary Toxicology Lab

Toxicology is the study of the adverse effects that result from the interactions between chemicals and biological systems. We educate and research toxicological characteristic chemicals and biological toxins encountered by domestic animals and pets.

Emphasis is placed on 1) toxic effects on target organs, toxic mechanism, and detoxification of toxins, 2) developing a diagnosis of intoxication, and 3) identification of appropriate treatment strategies for each toxicosis.

▪Main Research Interests:

1) Study on reproductive and developmental toxicity evaluation and toxic mechanisms

2) Safety evaluation and risk assessment of chemicals

3) Study on oxidative damage and toxic mechanisms

4) Development of consultation of new functional drugs and foods

Pharmacy

Contact Information
Phone: +82-62-530-2905, 2930
Fax: +82-62-530-2902
URL: http://pharmacy.jnu.ac.kr/

Graduate Studies in Pharmacy

The mission of the Department of Pharmacy is to create highly qualified pharmaceutical scientists and healthcare professionals. Graduate program of the College focuses on introducing up-to-date scientific knowledge and cutting-edge technologies in various areas to graduate students to better equip them for collaborative and/or independent research. Areas of academic specialization of the faculties in the College include Natural products chemistry, Pharmaceutics, Pharmaceutical chemistry, Pharmacology, Pathophysiology, Molecular biology, Immunology, Structural biochemistry, Bionano-pharmaceuticals, Pharmacotherapy, Applied pharmacology, Preventive Pharmacy, Pharmacognosy, Medicinal Chemistry, Pharmaceutical Analysis, and Physical Pharmacy.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate, including seminar 1. Ph.D. candidates are required to earn additional 36 credits, including seminar 2. Half of the required credits must come from Department courses. Students must also pass the foreign language exam and final exam (based on 2 subjects for master's degree candidates and 3 subjects for Ph.D. candidates).

Graduate students are also encouraged to publish their research at the SCI level. All students are assigned an academic advisor based on research interests.

What Do You Study?

Structure Elucidation of Natural Products
Research Techniques in Natural Products Chemistry
Advanced Medicinal Natural Products Chemistry 1
Advanced Medicinal Natural Products Chemistry 2
Natural Product Drug Development
Advanced Biopharmaceutics
Advanced Pharmacokinetics
Advanced Pharmaceutics
Advanced Pharmacodynamics
Advanced Pharmacogenomics
Advanced Pharmaceutical Chemistry I
Advanced Pharmaceutical Chemistry II
Advanced Pharmaceutical Chemistry III
Computer Modeling for New Drug Development 1
Computer Modeling for New Drug Development 2
Molecular Methodologies in Pharmacological Studies
Cellular Metabolic Disorders
Receptor Signaling
Signal Transduction and Regulation
Experimental Models and Design in Research
Advanced Pathophysiology I

Advanced Pathophysiology II
Molecular Pathophysiology
Biochemistry of Signal Transductions
Advanced Molecular Biology Ⅰ
Advanced Molecular Biology Ⅱ
Molecular Endocrinology
Experimental Molecular Biology
Molecular Oncology
Immunological Methodology 1
Immunological Methodology 2
Advanced Immunology 1
Advanced Immunology 2
Medicine and Health Sciences
Pharmacotherapy for Infectious Deseases
Pharmacotherapy for Cancers
Advanced Pharmacotherapy
Pharmacotherapy for Muscoskeletal Disorders
Structural Biochemistry
Advanced Topics in Protein Structure
Protein Biochemistry
Scientific Writing
Protein Structure Determination and Analysis
Advanced Drug Delivery System for Bionanopharmaceuticals
Advanced Biomaterials-Based Pharmaceutical/ Therapeutical Sciences
Advanced Analytical Biotechnology/ Nanotechnology/Information Technology
Advanced Site-specific Drug Targeting
Advanced Topics in Biopharmaceuticals/ Biomedicines
Pharmacology of metabolic diseases 1
Pharmacology of metabolic diseases 2
Translational Research 1
Research methods
Pharmacology of reactive oxygen species
Preventive Toxicology
Advanced Toxicology
Molecular Toxicology
Research Ethics
Advanced Pharmacognosy 1
Advanced Pharmacognosy 2
Advanced Pharmacognosy 3
Isolation and Elucidationof Natural Product Secondary Metabolites
Biosynthesis of Natural Products
Advanced Medicinal Chemistry I
Advanced Medicinal Chemistry II
Advanced Medicinal Chemistry III
Total Synthesis of Natural Products 1
Total Synthesis of Natural Products 2
Introduction to Cancer Nanomedicine
Introduction to Cancer Immunotherapy
Advanced Vaccine Therapeutics 1
Advanced Vaccine Therapeutics 2
Pharmacology of Cardiovascular Disease
Cardiovascular Disease and Research
Introduction of Epigenetic Therapy
Advanced Epigenetic Therapeutics
Current Trends in Analytical Biochemistry 1
Current Trends in Analytical Biochemistry 2
Advanced Instrumental Analysis
Advanced Spectroscopy
Analysis of Microbial Secondary Metabolites
Advanced Pharmacetutical Statistics
Advanced Physical Pharmacy
Advanced Biophysical Pharmacy
Nanomedicine for drug delivery
Advanced drug delivery system 1
Advanced drug delivery system 2
Seminar on Pharmaceutical Science 1
Seminar on Pharmaceutical Science 2

■ Professors

- Yong-Bok Lee, Ph.D.
  [Professor, Pharmaceutics, leeyb@jnu.ac.kr]
- Won-Jea Cho, Ph.D.
  [Professor, Organic Pharmaceutical Chemistry, wjcho@jnu.ac.kr]

- Kyeong-Man Kim, Ph.D.
  [Professor, Pharmacology, kmkim@jnu.ac.kr]
- Kwonseop Kim, Ph.D.
  [Professor, Pathophysiology, koskim@jnu.ac.kr]
- Kwang Youl Lee, Ph.D.
  [Professor, Molecular Biology, kwanglee@jnu.ac.kr]
- Bok Yun Kang, Ph.D.
  [Professor, Immunology, bykang@jnu.ac.kr]
- Young Ran Kim, Ph.D.
  [Professor. Pharmacotherapy. kimyr@jnu.ac.kr]
- Young Jun Im, Ph.D.
  [Professor, Structural Biochemistry, imyoungjun@jnu.ac.kr]
- ChangJu Chun, Ph.D.
  [Professor, Bionano-Pharmaceuticals, cchun1130@jnu.ac.kr]
- Joo Young Huh, Ph.D.
  [Associate Professor. Applied Pharmacology. jooyhuh@jnu.ac.kr]
- Jutaek Nam, Ph.D.
  [Associate Professor. Basic Pharmaceutical Chemistry. namj@jnu.ac.kr]
- Young-Chang Cho, Ph.D.
  [Associate Professor. Preventive Pharmacy. yccho@jnu.ac.kr]
- Namki Cho, Ph.D.
  [Associate Professor. Pharmacognosy. cnamki@jnu.ac.kr]
- Gyudong Kim, Ph.D.
  [Associate Professor. Medicinal Chemistry, gdkim0217@jnu.ac.kr]
- Kyuho Moon, Ph.D.
  [Assistant Professor, Pharmaceutical Analysis, khmon@jnu.ac.kr]
- Jeong Uk Choi, Ph.D.
  [Assistant Professor, Physical Pharmacy, cju0667@jnu.ac.kr]
- Somy Yoon, Ph.D.
  [Assistant Professor, Basic Pharmaceutical Biology, somyyoon@jnu.ac.kr]

■ Laboratories

- Pharmaceutics Lab
- Organic Pharmaceutical Chemistry Lab
- Pharmacology Lab
- Pathophysiology Lab
- Molecular Biology Lab
- Immunology Lab
- Pharmacotherapy Lab
- Structural Biochemistry Lab
- Bionano-Pharmaceuticals Lab
- Applied Pharmacology Lab
- Basic Pharmaceutical Chemistry Lab
- Preventive Pharmacy Lab
- Pharmacognosy Lab
- Medicinal Chemistry Lab
- Analytical Chemical Biology Lab
- Physical Pharmacy Lab
- Basic Pharmaceutical Biology Lab

Department of Korean music

Contact Information
Phone: +82-62-530-3050
Fax: +82-62-530-3059
E-mail: seonkyeong@jnu.ac.kr
URL: https://koreanmusic.jnu.ac.kr

■ Graduate Studies in Korean Music

The Department's 30 faculty members offer lectures in more than 30 Master's · Doctorate · Master's and Doctorate courses on special education in the theories and practice of Korean music.

■ Degree Requirements

▮ Master's Degree

Students can take 9 course units per semester for a total of 27 units. It is necessary to conduct a musical performance after finishing three terms for major practice.

Upon earning 1 semester and with the recommendation of the supervisor, a student may take the foreign language exam (in English, French, German, Chinese, or Japanese, or Korean for international students).

Upon earning 18 credits, and with the recommendation of the supervisor, students may take the general exam (based on 2 subjects).

▮ Ph.D. Degree

Students can take 9 course units per semester for a total of 36 units.

Upon earning 1 semester and with the recommendation of the supervisor, a student may take the foreign language exam (in English, French, German, Chinese, or Japanese, or Korean for international students).

Upon earning 27 credits, and with the recommendation of the supervisor, students may take the general exam (based on 3 subjects).

▮ Master's and Doctorate Degree

Students can take 9 course units per semester for a total of 54 units.

Upon earning 1 semester, and with the recommendation of the supervisor, a student may take the foreign language exam (in English, French, German, Chinese, or Japanese, or Korean for international students).

Upon earning 51 credits, and with the recommendation of the supervisor, students may take the general exam (based on 3 subjects).

■ What Do You Study?

Koryeo Dynasty Music
Old Literature and Musical Scores
Major of Traditional Korean Music
Major (1-7)

Folk Music
Analysis of Thesis
Research for Master's or Doctoral Degree
Korean Shamanistic Rhythm
Analytical Study on Thesis
Asian Music
Korean Folk Music Orchestra
Ethnomusicology
Studies and Analysis of Sanjo
Poetry and Music
Modern History of Korea
Music History of Choseon Dynasty
Korean Musical Iconography
Korean Folk Music
History of Korean Arts
Musical Instrument and Acoustics
Musical Literature
Philosophy of Art
Esthetics of Music
Theory and Method in Music Anthropology
Musicology
Aesthetics of Korean Music
Music of Choseon Dynasty
History of Contemporary Music
Pansori and Literature
Studies and Analysis of Pansori
Ancient and Medieval History of Music
Korean Musical Palaeography
Analysis of Korean Music
Korean Musicology

■ Professors

- In-Sam Jeon
  [Professor, Pansori, insam3052@jnu.ac.kr]
- Yong-Shik Lee
  [Professor, Theory, yongshiklee@jnu.ac.kr]
- Sang-yeon Kim
  [Associate Professor, Daegeum, sy5979@jnu.ac.kr]
- Hee-Bong An
  [Professor, Haegeum, haeguman@jnu.ac.kr]
- Hye-jin Yoon
  [Professor, Composition, humanias@jnu.ac.kr]
- Jae-young Kwak
  [Assistant Professor, Gayageum, kjy3050@jnu.ac.kr]
- Seung-heon Lee
  [Assistant Professor, Piri, leehong97hgd3050@jnu.ac.kr]

■ Laboratories

Over 35 training rooms, individual exercise rooms, Orchestra Lab, Chamber Orchestra Lab, Korean Classical Opera, Phonograph Record Room, 450- seat, Professional Performance Hall, 1600-seat Auditorium.

Department Of Design

Contact Information
Tel: +82-62-530-3070, 3072
Fax: +82-62-530-3079
E-mail: jnudesign@naver.com
URL: http://design.jnu.ac.kr

■ Graduate Study on Music

Advancement of creative problem-solving ability in visual design

By convergence of knowledge from various academic fields (cognitive psychology, semiotics, HCI, communication, etc.) that can be linked by upgrading the visual design education system of the Faculty, students will develop creative problem-solving abilities of rich emotions and logical thinking.

Practical Convergence Studies

Aiming for design specialized education centered on industrial site demand, it is to nurture professional, practical talents based on differentiated industry-university-linked education centered on maker studio projects.

Multidisciplinary design convergence education

Through a curriculum that balances theory and practice, creative planning and problem-solving ability, imagination and logical thinking, we will nurture a challenging spirit of experimentation and creativity, thereby securing leadership through a multidisciplinary program centered on design.

■ Degree Requirements

▮ Master's Degree

Students can take 6 credits (9 credits for students with excellent grades) per semester for a total of 24 units.

Students who have the qualifications to apply for a foreign language at the graduate school(completed at least 1 semester) can take the foreign language test.

Upon earning 18 credits, and with the recommendation of the supervisor, students may take the general exam (based on 2 subjects).

If you pass the foreign language test and the comprehensive test and complete all 24 credits, you can proceed with the master's thesis examination.

Upon completion of the thesis examination, a degree can be obtained.

■ What Do You Study?

Master

A/V Motion Graphic
Design Seminar
Directing Design
Design Semiotics
Design Management

Design Colloquium
Service Convergence Design
Video Image 1
Media Interaction Design
Design Liberal Arts
Design Culture
Integrated Marketing Design
Video Image 2
User Experience Design
ICT Design Project
Psychology of Formative Arts
Visual Contemporary
Design paradigm
Public Design Policy
Digital Media Theory
Design Statistics
Design Expression Workshop

■ Professors

- Kim, EelKwon
  [Professor, Media Art
  eelkwon@gmail.com]
- Yun, JaeSung
  [Professor, Visual Communication Design,
  asvi84@naver.com]
- Nam, HoJung
  [Professor, Visual Communication Design,
  hojungn@jnu.ac.kr]
- Suh, YoungSang
  [Professor, Photo and Media,
  ysang@jnu,ac.kr]
- Choi, Souk
  [Professor, Visual Communication Design,
  choiss@jnu.ac.kr]
- Jung, JungHo
  [Associate Professor,
  Service Design,
  vava@jnu.ac.kr]

■ Laboratories

Education and research activities are possible in each grade level practice room, state-of-the-art computer lab, and research lab.

Department Of Fine Art

Contact Information
Tel: +82 62 530 3020, 2540
Fax: +82 62 530 2549
E-mail: altnfgkrrhk@hanmail.net
URL: http://fineart.jnu.ac.kr

■ Graduate School of Fine Arts Research

Based on the tradition of *Yehyang* in the city Gwangju, referring to its historical role as a center of culture and arts in Korea, and motivated by new challenges in the contemporary art scene, the art elite of today is expected to pursue high levels of knowledge and professionalism. The Graduate School's goal is to foster progressive, creative thinking and practical art talent in response to social changes in the 21st century, through its five majors: Korean Painting, Western Painting, Sculpture, Crafts, and Art Theory.

■ What Do You Study?

Craft Theory
Modernization
Art Criticism
Seminar for theoretical studies
Author theory
Korean Paintings Seminar
Korean Painting Studio 2
Korean Painter 1
Contemporary art theory
Korean conversation history
Visual Design Seminar
Crafts Practice 1
Crafts Practice 2
a craft seminar
Design Management
Korean Painting Studio 3
Restoration of artwork
Realism Seminar
Crafts Practice 3
Art and Culture Policy Theory
Conversation practice 1
Conversation practice 2
Korean Fire Techniques Research1
Research on Korean Fire Techniques 2
Korean Fire Techniques Research 3
Painting Techniques Research1
Study on Conversation Techniques
Conversational Techniques Research
Theories of Korean Art History
contemporary art issues
Art Materials
21C Art Field Study
The Theory of Interpretation of Miso Works
Research Plan Seminar
Research Plan Seminar 2
Visual Design Techniques Research1
A Study on Visual Design Techniques 2
Special Issue of Visual Design Seminar
Visual design paradigm
Special Theory of Design Formation
Media specialism
Design marketing theory
Digital Communication Research
Research on Craft Techniques1
Research on Craft Techniques 2
Research on Craft Techniques 3

Craft Marketing Theory
Materials and Techniques
A Study on Spatial Formation
Environmental Art Theory
Special Study on Major Theory 1
Special Study on Major Theory 2
Criticism of Korean Contemporary Art
A Study on the History of Korean Art
A Study on the History of Western Art
Artwork Analysis
Eastern and Western cultural history
the study of Western aesthetics
Special Theory of Contemporary Art
Design Content Research
Theory of Oriental Painting 1
Theory of Oriental Painting 2
Research training 1
Research training 2
Research on Craft Techniques 4
Crafts Practice 4
A Study on Contemporary Art Techniques
Utilization of traditional conversation techniques
Modern and contemporary Korean chrysanthemum
Seminar for Research in Works
Formative Research 1
Formative Research 2
Theory of Formative Research 3
Modern Formwork Research 1
Modern Formwork Research 2
Modern Formwork Research 3
Modern Sculpture Research1
Modern Sculpture Research 2
Modern Sculpture Research 3
Research Plan Seminar
A Comparative Study of East and West Sculpture
Design Context A2Z
Painting Research Seminar
Painting Theory Research1
Painting Theory Research 2

■ Professors

- Jin Hur
  [Professor, Korean Painting, hurjin5@naver.com]
- Kum-Hee Jung
  [Professor, Western Art History, khjhjung@hanmail.net]
- Chul-Woo Kim
  [Professor, Fine Crafts(Ceramic Art), dogong63@hanmail.net]
- Ku-Yong Lee
  [Professor, Korean Painting, seed290@jnu.ac.kr]
- Kee-Moon Seo
  [Professor, Drawing & Painting, jinzza01@hanmail.net]
- Jei-Min Kim
  [Associate Professor, Drawing & Painting, jeimin@gmail.com]
- Hyun-ju Kim
  [Assistant Professor, Fine Crafts(Metal Art), blueart00@jnu.ac.kr]
- Jeong-Yong Park
  [Assistant Professor, Sculpture, fromthehand@hanmail.net]
- Ha-Young Joo
  [Assistant Professor, Western Art juja2@ hanmail.net]
- Hyoung-O Park
  [Assistant Professor, Sculpture, ocho1@ hanmail.net]

Department of Music

Contact Information
Tel: +82 62 530 3030, 0390
Fax: +82 62 530 3049
E-mail: cnumusic@hanmail.net
URL: http://music.jnu.ac.kr

■ Graduate Study on Music

The Department of Music cultivates talented individuals in order to produce professional musicians and educators. The department offers students exceptional opportunities to develop their musical skills and expand their artistic horizons.

■ Degree Requirements

Credit Requirements

Master: at least 27 credits

Doctor: at least 36 credits

Comprehensive Examinations

Qualifying Examinations

Master: at least 2 courses including history, literature of each major

Doctor: at least 3 courses including history, theory, literature of each major

Language Examination

possible to take after the completion of at least 1 semester

Recital Requirements

Master's: completion of 1 degree recital

Doctorate:

- String, Wood, Brass, Percussion Major: solo recitals (3 times)
  chamber recital (1 time)
  concerto (1 time)
- Voice Major: solo recitals (4 times)
  leading role in opera or grand choir (1 time)
- Composition Major: doctoral composition chamber recital (2 times),
  composition and recital of solo or chamber works (2 times),
  composition and recital of grand composition work (choir, orchestra, opera)
- Piano Major: solo recitals (3 times), chamber recital (1 time),
  concerto with orchestra or ensemble (1 time)

■ What Do You Study?

Master

Music History of the Baroque and Classical Period
Music History of the Romantic and 20th Century Period
Music Analysis
Chamber Music Literature
Vocal Seminar 1, 2
Composition Seminar 1, 2
Conducting Seminar 1, 2
Piano Seminar 1, 2
Orchestral Seminar 1, 2
Study of Computer Music
Beethoven Studies
Research Seminar
Studies in Conducting
Symphonic Literature
Collaborative Piano 1, 2, 3
Instrument Major 1, 2, 3
Voice Major 1, 2, 3
Composition Major 1, 2, 3
Piano Major 1, 2, 3
Orchestral Conducting 1, 2, 3

Doctor

Music History of the Baroque and Classical Period
Music History of the Romantic and 20th Century Period
Music Analysis
Chamber Music Literature
Vocal Seminar 1, 2
Composition Seminar 1, 2
Conducting Seminar 1, 2
Piano Seminar 1, 2
Orchestral Seminar 1, 2
Study of Computer Music
Beethoven Studies
Resarch Seminar
Studies in Conducting
Symphonic Literature
Collaborative Piano 1, 2, 3
Instrument Major 4, 5, 6, 7, 8, 9, 10
Voice Major 4, 5, 6, 7, 8, 9, 10
Composition Major 4, 5, 6, 7, 8, 9, 10
Piano Major 4, 5, 6, 7, 8, 9, 10

■ Professors

- Hyun-Ok Moon, D.M.A.
  [Professor, Piano,
  hyun0404@jnu.ac.kr]
- Sukyung Shin, D.M.
  [Professor, Piano,
  sushin@jnu.ac.kr]
- Hyun-Sue Chung, Ph.D.
  [Professor, Composition,
  music@jnu.ac.kr]
- Kyung-Jin Han, Ph.D.
  [Professor, Composition,
  hankj7@jnu.ac.kr]
- Byung-Kil Yoon, Diplom
  [Associate Professor, Voice
  corelliyoon@jnu.ac.kr]
- Eun-Shik Park, D.M.A.
  [Associate Professor, Piano
  meunspark@jnu.ac.kr]
- Hyejung Lee, Diplom
  [Associate Professor, Violin
  hjlee0608@jnu.ac.kr]
- Byung-Woo Kong, Perfectionnement
  [Associate Professor, Voice
  veritaspaul@jnu.ac.kr]
- In-Woock Park, M.A.
  [Associate Professor, Conducting
  parkinwoock@jnu.ac.kr]
- Yun-Joo Na, D.M.A.
  [Associate Professor, Cello
  nayunjoocello@jnu.ac.kr]

• Hye-Sung Na, Konzertexamen [Assistant Professor, Voice comet@jnu.ac.kr]

■ Laboratories

- Yehang Hall is a professional concert hall with 300 seats.
- Jieum Hall has 100 seats and is also used for lectures and master classes.
- 50 soundproof practice rooms.
- Music listening room with more than 10,000 CDs and 3,000 scores.
- Computer music lab with 20 computers with various midi systems.
- Chorus room
- Orchesra rehearsal room.

Interdisciplinary Program of Arts & Design Technology

Contact Information
Tel: +82-62-530-3090
Fax: +82-62-530-3089
E-mail: adt-own@naver.com
URL: http://art-design-tech.com/

■ Graduate Studies in Interdisciplinary Program of Arts & Design Technology

The Interdisciplinary Program of Arts & Design Technology is based on culture and art and combines intelligent technologies (AR/VR, big data, AI, 3D printing, etc.) to focus on various field practices such as new media art, interaction design, art marketing, and digital media management. It educates and researches content planning and production, nurturing design convergence talents to solve industrial and social problems.

Newly established in June 2020, this cooperative course consisting of digital arts and human interaction design majors combines humanities and social sciences technology to preemptively respond to rapidly changing social changes, nurturing intelligent cultural and artistic content convergence talents in regional bases, It aims to discover human care service experts who create shared values to solve social problems.

Through this, by securing creative education and research initiatives of regional base universities and driving high added value in the cultural technology field, which is the main industry in the region, it is possible to revitalize social contribution culture and art content research and create community social value for the region and the country. We are moving forward to nurture “right design convergence talents that benefit human life.”

■ Degree Requirements

The Master's degree program

Applicants for a master’s dissertation are required to meet all following prerequisite requirements.

① Earn 24 credits : Applicants for a master’s degree are required to obtain at least 18 credits in the curriculum provided by this interdisciplinary Program, including at least 12 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Meet any one of the following prerequisite:

- At least 1 publication of academic paper in on-campus or off-campus academic journal.
- For the Digital Arts major, participation in at least 2 international exhibitions.
- For the Human Interaction Design major, at least 2 presentations at international academic conferences.

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

The Doctorate program

Applicants for doctorate dissertation are required to meet all following prerequisite requirements.

① Earn 36 credits : Applicants for a doctorate degree are required to obtain at least 27 credits in the curriculum provided by this interdisciplinary Program, including at least 18 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Two or more academic papers worthy of being considered for publication at KCI (solo or lead author)

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

Integrated master's and doctorate program

Applicants for integrated master's and doctorate dissertation proposal are required to meet all following prerequisite requirements.

① Earn 54 credits : Applicants for an integrated master's and doctorate degree are required to obtain at least 42 credits in the curriculum provided by this interdisciplinary Program, including at least 30 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Three or more academic papers worthy of being considered for publication at KCI (solo or lead author)

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

■ What Do You Study?

▮ Major in Digital Arts

Seminar : Visual Design
Theory of Fine Arts
Arts & Cultural Marketing
Visual Design Studio
Theory of Korean Contemporary Art
Theory of Contemporary Western Art
Arts And Aesthetics
Contemporary Art Criticism
East and West Comparative Art
Convergence Contents Design
Design Illustration
Theory of Art Creation
Convergence Formation Studio
Formative Arts Techniques 1
Formative Arts Techniques 2
Art Technology
Media & Formative Arts
Digital Fine Art Technics
Art Production Management
Culture & City Civilization
Introduction to Humanities & Arts
Humanities Culture & Arts Seminar
UNESCO Culture Cities
Development of Local Culture & Urban
Cultural Arts & Technology
Cultural Arts Entrepreneurship
Art Merchandise Planning
Culture & Arts Trends
Semiotics
Formative Psychology
Media Art Studio

Sound Design
Theory of Visual Communication
Studies of Design & Formation
Art Psychotherapy
Arts & Copyright
Art Curation
Cultural Archetype & Contents
Digital Contents Planning
Theory of Video & Film
Evolutionary Psychology
Visual Programming
Motion Graphic Special Production Techniques
3D Printer Applications
Motion Graphic Design
Video Animation
VFX Studio
Game Production Studio
Seminar for Convergence of Culture and Arts
Arts Management
Virtual Contents Storytelling
Design Policy Studies
Arts Research Guidance 1
Arts Research Guidance 2
Arts Project Research Training 1
Arts Project Research Training 2
Digital drawing coding practice
Glocal Convergence Studio

▮ Major in Human Interaction Design

Bioinfomatics
Research of Digital Communication
Service Engineering Special Theory
Advanced Topics in Service Engineering
Service Convergence Design
Design Management
Marketing Communication
Design Strategy Simulation
Art & Design Business
Design Research Methodology
Public Brand Design
Introduction to HCI
Interaction Design
Special Topic on Cognitive System Engineering
Cognitive Science and Applications
Development of New Service Production
AI & UX Design
Statistical Research Methodology 1
Statistical Research Methodology 2
Design Quality Management
Service Management Innovation
Database Design
Introduction to Industrial and Information Engineering
AR/VR
Image Media Contents
Media Technology & Design
Art & Computational Thinking
Computer Graphics Programming
New Media & Contents
Interactive Media
Cultural Technology Theory
Healthcare Service Design
Human Physiology
Healthcare IoT
Healthcare BigData Analysis
Healthcare Business & Legal
Mixed Research Methology
Health Education and Promotion
Cognitive Psychology
Design Startup
UI/UX Design
Interface Design
Design Trend
Physiological Computing
User Experience Analysis
Development of AR / VR Contents
Design Thinking & Creative Problem Solving
DesignScience Research
Design Convergence Essence
Arts Product Capstone Design
Design Research Guidance 1
Design Research Guidance 2
Design Project Research Training 1
Design Project Research Training 2
Creative Problem Sloving Design

Digital Transformation Leadership
Design statistics 1
Design statistics 2
ChatGPT and Design Ethics

■ Professors

- Ryu, Jaehan
  [Professor, French Language and Literature, jh2059@jnu.ac.kr]
- Jeong, Geumhui
  [Professor, Fine Arts, khjhjung@hanmail.net]
- Choi, Seok
  [Professor, Design, choiss@jnu.ac.kr]
- Lee, Guyong
  [Professor, Fine Arts, seed290@jnu.ac.kr]
- Ham, Donghan
  [Professor, Industrial Engineering, donghan.ham@gmail.com]
- Jeong, Young-Seon
  [Professor, Industrial Engineering, young.jeong@jnu.ac.kr]
- Jung, Jungho
  [Associate Professor, Design, vava@jnu.ac.kr]
- Ahn, Minjeong
  [Assistant Professor, Nursing Science, anminjeong@jnu.ac.kr]
- Min, Jinyoung
  [Professor, French Language and Literature, sahara@jnu.ac.kr]
- Shin, Chunseong
  [Assistant Professor, Culture Business, jh2059@jnu.ac.kr]

Department of Medical Science

Contact Information
Phone: +82-62-530-4026
E-mail: dkdk5454@jnu.ac.kr
URL: http://medicine.jnu.ac.kr/english

■ Graduate Studies in Medical Science

Established in 1952, the Faculty of Medicine is the oldest graduate course of medical science in the south-western part of the nation. It's Basic Science courses provide research opportunities for students who want to study on biomedical science. The Clinical Science courses are conducted at the Chonnam University Hospital as well as other affiliated hospitals throughout the province of the nation.

In the spirit of Truth, Creativity, and Service which are the missions of the Chonnam National University, Faculty of Medicine in the Graduate School programs is committed to developing the medical scientist who have the personality and virtue necessary to handle human life, who have the leadership in the field of medical science, and who have the attitude to contribute to the welfare of human beings.

To meet the missions of the Faculty of Medicine in the Chonnam National University Graduate School, students should

1. Develop humanity required to a medical scientist
2. Develop research spirit to try to understand medical problems
3. Develop the attitude to solve any problems both rationally and creatively with his/her own knowledge and skills
4. Develop the capability to perform an independent research and education
5. Develop a sense of duty on the community and nation's health welfare

■ Degree Requirements

Master's degree candidates are required to earn 24 credits (6 credits of common compulsory, 6 credits for compulsory major, 6 credits of elective major and 6 additional credits). Candidates also have to pass a comprehensive exam and a foreign language exam prior to submitting a thesis.

Doctoral degree candidates are required to earn 36 credits (6 credits of common compulsory, 9 credits for compulsory major, 9 credits for elective major and 12 additional credits). Candidates also have to pass a comprehensive exam and a foreign language exam prior to submitting a thesis. They also have to publish at least one article (impact factor$\geq$1.0) in a journal listed in science citation index (SCI(E)) as the first author and the advisor as the corresponding author.

■ What Do You Study?

- Subjects are divided into joint compulsory, compulsory major, and elective major.

1. The joint compulsory subjects are offered by semester for masters and doctoral students.
2. The compulsory major courses are selected from the major subjects (I, II, III) to which the student's major belongs.
3. Major elective courses are selected from the subjects that do not include the student's major.

- Additional elective courses can be selected from within the department or from other departments.
- Major subjects classification

1. Major I - Anatomy, Physiology, Biochemistry, Pathology, Pharmacology, Microbiology, Preventive Medicine, Forensic Medicine, Medical Education, Biomedical Sciences, Parasitology and Tropical Medicine
2. Major II - Internal medicine, Pediatrics, Dermatology, Neurology, Psychiatry, Radiology, Radiation Oncology, Laboratory Medicine, Nuclear Medicine, Physical & Rehabilitation Medicine, Occupational and Environmental Medicine, Family Medicine
3. Major III - Surgery, Orthopedic Surgery, Neurosurgery, Thoracic and Cardiovascular Surgery, Obstetrics and Gynecology, Plastic and Reconstructive Surgery, Urology, Otolaryngology and Hean & Neck Surgery, Anesthesiology and Pain Medicine, Emergency Medicine, Ophthalmology

Abnormal Labor and Delivery
Acute And Chronic Renal Failure
Adolescent Medicine
Adult Cardiac Surgery
Advanced Biochemistry
Advanced Cardiac Life Support
Advanced Cellular Biology
advanced Human Anatomy
Advanced Traumatic Life Support
Allergic rhinitis and sleep apnea
Andrology
Anesthesia for Thoracic Surgery
Anorectal physiology
Applied Anatomy
Arthroscopic Surgery
Basic Microbiology
Basic Pharmacology1
Basic Pharmacology2
Basic Virology
Behavioral Pediatrics
Bioinformatics
Bone Pathology
Bone Tumors
Brain tumor Pathology
Breast Radiology
Breast Surgery
Cardiac Radiology
Cardiopulmonary Cerebral Resuscitation
Cardiovascular Pathology
Cardiovascular Pharmacology
Cataract and Geriatric Ophthalmology
Cell age chemistry
Cell Pathology
Cell Signalling
Clincal epidemiology
Clinical Cardiac Electrophysiology
Clinical microbiology
Clinical occupational medicine
Clinical Pharmacology
Clinical psychopharmacology
Clinical Research of Depression
Clinical Systemic Mycology
Clinical Toxicology
Clinical ultrasonography
Cochlear implant and Implantable hearing aid
Collagen Diseases of the Skin

Colorectal Surgery
Communicadle Disease Control
Community Medicine
Comparative Embryology & Anatomy
Critcal Care Medicine
Cross-Sectional Anatomy
Current Trend in Radiology
Current Trends in Nuclear Medicine
Current Trends of Leukemia Study
Current Trends of Medical Science (Ⅰ)
Current Trends of Medical Science (Ⅱ)
Current Trends of Medical Science 3
Current Trends of Medical Science 4
Cutaneous Oncology
Degenerative Lumbar Diseases
Dental Anesthesiology
Developmental Biology
Diagnosis and treatment of arrhythmia
Diagnosis and treatment of osteoarthritis
Diagnosis and Treatment of Posterior Flexural Pain
Diagnosis and treatment of rheumatoid arthritis
Diagnosis and treatment of Spondyloarthritis
Diagnosis and Treatment of Systemic Lupus erythematosus
Diagnosis of Lung Cancer
Diagnostic Molecular Biology
Diagnostic Radiology of Digestive System
Diagnostic Radiology of Musculoskeletal System
Diagnostic Radiology of Respiratioy System
Diagnostic Radiology of Urogenital System
Differential Diagnosis and Treatment of Hearing Loss
Digestive disease and Nutrition
Digestive Physiology
Disaster Medicine
Drug Toxicology
Electrodiagnostic Medicine
Endocrine Physiology
Endocrinology and Metabolism
Endourology
Enviromental Pathology
Environment and Health
Environmental Carcinogenesis
Environmental Epidemiology
Environmental Health
Environmental Medicine
Environmental toxicology
Enzymology
Epidemiology
Epidemiology of Chronic Disease
Esophageal Surgery
Experimental Methods in Cell Biology
Exposure assessment
Extracellular Matrix
Female Urology
Fetal Cardiology
Fluid and Electrolyte Balance
Forensic Pathology
Fungal Diseases of the Skin
Gastroenterologic surgery
Gastrointestinal Bleeding
Gastrointestinal Motility
Gastrointestinal Oncology
General Introducion in Rehabilitation Medicine
General of thopedics
General Opthalmology
Geriatric Anesthesiology
Geriatric Otolaryngology
Geriatric Psychiatry
Geriatric Rehabilitation Medicine
Head and Neck Cancer
Head and Neck Pathology
Health Administration
Health Economics
Health Statistics
Heart anesthesia
Heat Emergencies
Hemodialysis and Peritoneal Dialysis
Hemodynamic monitoring in Intensive care unit
High-risk Obstetrics
Histology of the Endocrine System
Hospital Managment
Immunology of the Skin
Immunopharmacology
Industrial Health

Infection Immunology
Infectious Disease in the Nervous System
Interventional Radiology
Intravenous anesthesia
Introduction to Clinical Medicine Research
Joint Replacement Arthroplasty
Laparoscopic Surgery
Leukemia Cytogenetics
Management & Control of Hospital Infection
Mechaincal circulatory support
Medical Care
Medical Electrophysiology
Medical Oncology
Metabolic and Endocrine Disorders in Children
Microbial Genetics
Microbiology of the Skin
Mitochondrial Pathology
Molecular Endocrinology
Molecular Microbiology
Molecular Oncology
Molecular Pathology
Morphology of Congenital Cardiac Anomalies
Mycobacterial pulmonary diseases
Neonatal Respiratory Physiology
Nephrology
Nerovascular Surgery
Neuororadiology
Neural cell biology
Neuroanatomy
Neuroanesthesiology
Neurodegenerative Pathology
Neurological Diagnosis
Neurooncology(Ⅰ)
Neurooncology(Ⅱ)
Neuro-Ophthalmology
Neuropharmacology
Neurotraumatology
Obstetric Anesthesiology
Obstetrics and Gynecology
Occupational epidemiology
Ocular Immunology
Ocular infection
Ocular Surface Diseases
Ocular Tumors
Ophthalmologic Examination
Orthopaedic Traumatology-Frature and Dislocation
Orthotics and Prosthetics
Osteoporosis and Metabolic Bone Diseases
Otitis Media
Otoneurotology
Outpatient Anesthesia
Pain Medicine
Pain Rehabilitation
Pancreatic Surgery
Pancreatittis
Pathology of Hepatobilary System
Pathology of Cerebrovascular System
Pathology of Dementia
Pathology of Digestive System
Pathology of Endocrine System
Pathology of Genital System
Pathology of Hematopoietic System
Pathology Of Respiratory System
Pathology of Urinary System
Pathophysiology of Circulatory System
Pathophysiology of Congenital Heart Diseases.
Patient Monitoring
Pediatric Anesthesiology
Pediatric Echocardiography
Pediatric Hematology
Pediatric Neurology
Pediatric Neurosurgery
Pediatric Ophthalmology
Pediatric Orthopedics
Pediatric Otolaryngology
Pediatric Pathology
Pediatric Rehabilitation Medicine
Pediatric Urology
Pharmacology of Chemotherapy
Physiology and Defense mechanism of external auditory canal
Physiology of Autonomic Nervous System
Physiology of Cental Nervous System
Physiology of Motor Nervous system

Physiology of Somatic Sense
Physiology of the Skin
Plastic and reconstructive surgery
Psychopathology
Radiation oncology
Radioisotope therapy
Regional Anesthesiology
Rehabilitation in Spinal Cord Injury
Renal Pathology
Renal Pathophysiology
Renal Physiology
Reproductive Endocrinology
Research Methodology in Medicine 1
Research Methodology in Medicine 2
Research Methodology in Medicine 3
Research Methodology in Medicine 4
Research Methodology in Psychiatry
Research Methods for Clinical Medicine
Respiratory Allergy
Respirology
Rhinology
Seizure Disorder
Skin Pathology
Sleep Medicine
Spine Injury
Spine Surgery
Stroke Rehabilitation
Structure and Function of the Skin
Sudden Deafness
Surface Anatomy
Surgical Diseases of the Lung and the Pleura
Surgical Traumatology
Surveillance System on environmental medicine
The Foot and Ankle
The principle and application of nuclear medicine technology
The Theory and Practice in the Teeatment of Dermatologic Diseases
Therapeutic Endoscopy
Therapeutic Ophthalmology
Toxicogenomics
Toxicologic Pathology
Transfusion Medicine
Transplantation Surgery
Treatment Guideline of Dementia
Treatment of Inflammatory Bowel Disease
Treatment of lung cancer
Tumor Immunology
Tumor Pathology
Tumor Virus
Tumors of nose and Paranasal sinuses
Updates of Gastroenterology, Hepatoloby and Pancreatobiliary disease
Up-to-date understanding of infectious disease
Urinary Tract Infection
Urologic Injury
Urologic Oncology
Urologic Stones
Vestibular Physiology
Wilderness

■ Professors

Anatomy

- Seung Won Lee
  [Professor, Anatomy and Histology, Proteomics, seunglee@jnu.ac.kr]
- Kwang Il Nam
  [Professor, Anatomy, atlas@jnu.ac.kr]
- Chae Yong Jung
  [Professor, Histology and Embryology, chjung@jnu.ac.kr]
- Ju Hyun Song
  [Professor, Neuroanatomy, Histology, juhyunsong@jnu.ac.kr]

Physiology

- Jong Seong Park
  [Professor, Neurophysiology, parkjs@jnu.ac.kr]
- Han-Seong Jeong

[Professor, Neurophysiology, Stem Cell Bioengineering, hsjeong@jnu.ac.kr]

- Sujeong Jang
  [Associate Professor, Stem cell, Molecular biology, Neurophysiology, sujeongjang@jnu.ac.kr]

Biochemistry

- Young Do Jung
  [Professor, Cancer Biology: Signal Transduction and Genetic Regulation in Angiogenesis and Cancer Metastasis, ydjung@jnu.ac.kr]
- Kee Oh Chay
  [Professor, Cell Adhesion and Migration in Cancer Metastasis, kochay@jnu.ac.kr]
- Seung Rock Lee
  [Professor, Redox Biology and Medicine: Redox Regulation of Tumor Suppressor PTEN and Protein Tyrosine Phosphatases, Enzyme Activity and Cellular Function of Selenoproteins, Ascorbic Acid (Vitamin C) Derivatives. leesr@jnu.ac.kr]
- Kyung A Cho
  [Professor, Cell Signaling in Cellular Senescence and Immunosenescence, kacho@jnu.ac.kr]
- Young Kook Kim
  [Professor, RNA biology, ykk@jnu.ac.kr]
- Bo Ra Lee
  [Assistant Professor, neurodevelopment, molecular biology, blee03@jnu.ac.kr]

Pathology

- Chan Choi
  [Professor, Pathology of Urinary Tract, cchoi@jnu.ac.kr]
- Jong Hee Nam
  [Professor, Gynecologic Pathology, jhnam@jnu.ac.kr]
- Jae Hyuk Lee
  [Professor, Pathology of Gastrointestinal Tract and Hepatobiliary/Pancreatic System, jhlee@jnu.ac.kr]
- Ji Shin Lee
  [Professor, Breast Pathology, jshinlee@hanmail.net]
- Yoo Duk Choi
  [Professor, Respiratory pathology, drydchoi@jnu.ac.kr]
- Kyung Hwa Lee
  [Professor, Neuropathology, gastrointestinal pathology, oncology, mdkaylee@jnu.ac.kr]
- Sung Sun Kim
  [Associate Professor, Uropathology, Renal pathology, oncology, kimsspathology@jnu.ac.kr]

Pharmacology

- Young Chae Lim
  [Professor, Clinical Pharmacology, limyc@jnu.ac.kr]
- Hyun Kook
  [Professor, Cardiovascular Pharmacology, kookhyun@jnu.ac.kr]
- Nack Sung Kim
  [Professor, Molecular Biology, nacksung@jnu.ac.kr]
- Jung Min Kim
  [Professor, Molecular Biology, jungminkim@jnu.ac.kr]
- Gwang Hyeon Eom
  [Associate Professor, Molecular Pharmacology, eomgh@jnu.ac.kr]
- Park Hyun Sun
  [Assistant Professor, Neuropharmacology, hspark91@jnu.ac.kr]

Microbiology and Immunology

- Joon Haeng Rhee
  [Professor, Immunology, Vaccinology, Molecular Microbiology,

jhrhee@jnu.ac.kr]
- Young Jin Hong
  [Professor, Cellular Microbiology, yjhong@jnu.ac.kr]
- Jae Ho Jeong
  [Associate Professor, Infection and Infection control, Bacterial molecular pathogenesis, Bacteria mediated cancer therapy, jeongjaeho@jnu.ac.kr]
- Soo Hyun Kim
  [Assistant Professor, Clinical microbiology, Mycology, alpinboy@jnu.ac.kr]
- Jae Ho Cho
  [Professor, T cell immunobiology, jh_cho@jnu.ac.kr]
- Yoonjoo Choi
  [Associate Professor, Immunoinformatics yoonjoo.choi@jnu.ac.kr]

Preventive Medicine

- Joon Ho Shin
  [Professor, Health Policy and Management, jhshin@jnu.ac.kr]
- Min Ho Shin
  [Professor, Epidemiology, mhshinx@paran.com]
- Sun Seog Kweon
  [Professor, Cancer Epidemiology, ujingogo@paran.com]
- Hye Yeon Kim
  [Assistant Professor, Health Policy and Management, hykim615@gmail.com]

Forensic Medicine

- Jong Tae Park
  [Professor, Forensic Pathology and Anthropology, Molecular Biology, jtpark@jnu.ac.kr]
- Hyung Seok Kim
  [Professor, Forensic Medicine, Neuropathology veritas@jnu.ac.kr]

Medical Education

- Eun Kyung Chung
  [Professor, Medical Education, ekcmedu@jnu.ac.kr]
- Eui Ryoung Han
  [Assistant Professor, Medical Education, jolie@jnu.ac.kr]

Biomedical Sciences

- In Kyu Park
  [Professor, Non-viral Gene Therapy, Biomedical Engineering, pik96d@gmail.com]
- Seok Yong Choi
  [Professor, Developmental Biology & Drug Development, zebrafish@jnu.ac.kr]
- Hee Young Shin
  [Professor, Pharmacoepidemiology & Bioethics, hyshin@jnu.ac.kr]
- Ji Hoon Jo
  [Professor, Neuroscience, Jihoon.Jo@jnu.ac.kr]
- Hoon Hyun
  [Associate Professor, Molecular Imaging, Cancer Therapy & Drug Delivery, hhyun@jnu.ac.kr]
- Stan Razvan
  [Associate Professor, Biophysics and Immunology, strazvan@jnu.ac.kr]

Parasitology and Tropical Medicine

Internal Medicine

Gastroenterology

- Sung Kyu Choi
  [Professor, Gastroenterology, choisk@jnu.ac.kr]
- Hyun Soo Kim
  [Professor, Gastroenterology, dshskim@jnu.ac.kr]
- Young Eun Joo
  [Professor, Pancreatobiliary Disease,

yejoo@jnu.ac.kr]
- Chang Hwan Park
  [Professor, Gastroenterology, p1052ccy@hanmail.net]
- Wan Sik Lee
  [Professor, Gastroenterology, jadelook@hanmail.net]
- Sung Bum Cho
  [Professor, Hepatocellular carcinoma eunabumi@jnu.ac.kr]
- Seon Young Park
  [Professor, Gastroenterology, drpsy@naver.com]
- Dae Seong Myung
  [Assistant Professor, Gastroenterology, colonoscopy, underlove@jnu.ac.kr]
- Yoon Jae Hyun
  [Assistant Professor, Gastroenterology, Hepatology, zenmake14@gmail.com]
- Eunae Cho
  [Assistant Professor, Gastroenterology, Pancreatobiliary diseases, eunaecho@jnu.ac.kr]

Cardiology

- Myung Ho Jeong
  [Professor, Intervention, Atherosclerosis, myungho@chollian.net]
- Youngkeun Ahn
  [Professor, Intervention, Atherosclerosis, cecilyk@hanmail.net]
- Hyung Wook Park
  [Professor, Electrophysiology, Arrhythmia, Syncope, mdhwp@chol.com]
- Young Joon Hong
  [Professor, Intervention, Imaging, Atherosclerosis, hyj200@hanmail.net]
- Hyun Ju Yoon
  [Professor, Professor, Echocardiography, Valves, Heart Failure, ann426@hanmail.net]
- Ju Han Kim
  [Professor, Intervention, Hypertension, drfrog@dreamwiz.com]
- Kye Hun Kim
  [Professor, Echocardiography, Valve, Heart Failure, christiankyehun@hanmail.net]
- Namsik Yoon
  [Professor, Electrophysiology, Arrhythmia, Sudden Cardiac Death, Cardiac Implantable Electronic Device, NSAIDs77@hitel.net]
- Doo Sun Sim
  [Professor, Intervention, Atherosclerosis, true1021@gmail.com]
- Ki Hong Lee
  [Professor, Electrophysiology, Cardiac Device, Atrial fibrillation, Sudden cardiac arrest drgood2@naver.com]
- Jae Yeong Cho
  [Associate Professor, Cardiology, jaeycho@jnu.ac.kr]
- Min Chul Kim
  [Associate Professor, Interventional cardiology, Cardiac intensive care, Mechanical circulatory support, kmc3242@hanmail.net]
- Kyung Hoon Cho
  [Associate Professor, Cardiology, zarazoro@hanmail.net]
- Yoo Ri Kim
  [Associate Professor, Cardiology, geniusyul@gmail.com]

Pulmonology

- Young - Chul Kim
  [Professor, Pulmonary and Critical Care Medicine, kyc0923@jnu.ac.kr]
- Sung - Chul Lim
  [Professor, Pulmonary and Critical Care Medicine, lscmd@jnu.ac.kr]
- Yu - Il Kim
  [Professor, Pulmonary and Critical Care Medicine, kyionly@jnu.ac.kr]
- Yong - Soo Kwon
  [Professor, Pulmonary and Critical Care Medicine, yckwon@jnu.ac.kr]

- In - Jae Oh
  [Professor, Pulmonary and Critical Care Medicine, droij@jnu.ac.kr]
- Cheol Kyu Park
  [Associate Professor, Pulmonology, Lung cancer, ckpark214@jnu.ac.kr]
- Hong Joon Shin
  [Associate Professor, Pulmonology, ShinHJ@jnu.ac.kr]
- Kim, Tae Ok
  [Associate Professor, Critical care, respiratory disease, tokim@jnu.ac.kr]

Endocrinology and Metabolism

- Dong Jin Chung
  [Professor, Endocrinology and Metabolism, Bone Vand Mineral Metabolism, Adrenal Metabolism, djchung@jnu.ac.kr]
- Ho Cheol Kang
  [Professor, Endocrinology and Metabolism, Diabetes Mellitus, drkang@jnu.ac.kr]
- Jin Ook Chung
  [Professor, Endocrinology, Diabetes mellitus, jochung@jnu.ac.kr]
- Hee Kyung Kim
  [Associate Professor, Endocrinology and Metabolism, albeppy@jnu.ac.kr]
- Jee Hee Yoon
  [Associate Professor, Endocrinology and Metabolism, jhyoon00@jnu.ac.kr]

Nephrology

- Nam Ho Kim
  [Professor, Acute Renal Failure, Diabetic Nephropathy, nhk111@jnu.ac.kr]
- Soo Wan Kim
  [Professor, Chronic Kidney Disease, Kidney Transplantation, Hemodialysis, Peritoneal Dialysis, skimw@jnu.ac.kr]
- Seong Kwon Ma
  [Professor, Chronic Kidney Disease, Hemodialysis, Diabetic Nephropathy, Hypertension, Glomerulonephritis, drmsk@jnu.ac.kr]
- Eun Hee Bae
  [Professor, Chronic Kidney Disease, Hemodialysis, Hypertension, Diabetic Nephropathy, Glomerulonephritis, baedark@hanmail.net]
- Chang Seong Kim
  [Associate Professor, Kidney transplantation, Diabetic and Hypertensive Nephropathy, Translational research in Kidney diseases, laminion@hanmail.net]
- Hong Sang Choi
  [Associate Professor, Acute and Chronic Kidney Disease, Dialysis, Hypertension, choihs@jnu.ac.kr]
- Sang Heon Suh
  [Assistant Professor, Chronic Kidney Disease, Hemodialysis, Hypertension, Diabetic Nephropathy, Glomerulonephritis, medssh19@jnu.ac.kr]

Hemato-oncology

- Hyeoung Joon Kim
  [Professor, Hematopoletic Stem Cell Transplant, Acute and Chronic AML, CML, hjoonk@jnu.ac.kr]
- Ik Joo Chung
  [Professor, Gastric Cancer, Colon Cancer, ijchung@jnu.ac.kr]
- Je Jung Lee
  [Professor, Hematopoietic Stem Cell Transplant, Lymphoma, Multiple Myeloma, drjejung@cnuh.jnu.ac.kr]
- Sang Hee Cho
  [Professor, Gastric Cancer, Colon Cancer, sh115@chollian.net]
- Deok Hwan Yang
  [Professor, Hematopoietic Stem Cell Transplantation, Lymphoid Malignancy, drydh1685@hotmail.com]
- Woo Kyun Bae

[Professor, hemato-oncology, drwookyun@jnu.ac.kr]
- Jun Eul Hwang
  [Professor, Medical Oncology, hjunyl@naver.com]
- Jae Sook Ahn
  [Professor, Professor, Hematology-Oncology, f0115a@jnu.ac.kr]
- Hyun Jeong Shim
  [Associate Professor, Medical oncology, Breast cancer, Head and neck cancer, hjnhj@jnu.ac.kr]
- Seo-Yeon Ahn
  [Assistant Professor, Hematology-Oncology, armful12@hanmail.net]

Infectious Diseases

- Sook In Jung,
  [Professor, Infection, sijung@jnu.ac.kr]
- Kyung Hwa Park
  [Professor, Infection, medkid@dreamwiz.com]
- Hee Chang Jang
  [Professor, Infection, haroc153@naver.com]
- Seung Ji Kang
  [Associate Professor, Infection, sseungi@hanmail.net]
- Kim Uh Jin
  [Assistant Professor, Infection, astralio@naver.com]
- Kim Seong Eun
  [Associate Professor, Infection, favorofgod@hanmail.net]

Allergy and clinical immunology

- Young-Il Koh
  [Professor, Allergy, Asthma and Clinical Immunology, yikoh@jnu.ac.kr]
- Da Woon Sim
  [Associate Professor, Asthma, Adverse drug reaction, Food allergy, mdsdw@jnu.ac.kr]

Rheumatology

- Shin Seok Lee
  [Professor, Rheumatology, shinseok@jnu.ac.kr]
- Yong Wook Park
  [Professor, Rheumatology, parkyw@jnu.ac.kr]
- Tae Jong Kim
  [Professor, Clinical and Basic Research on Spondyloarthritis (especially Ankylosing Spondylitis), ktj1562@jnu.ac.kr]
- Dong Jin Park
  [Associate Professor, Rheumatology, dongjin02@jnu.ac.kr]

Surgery

Gastroenterologic Surgery

- Dong Yi Kim
  [Professor, Gastric Cancer and Benign Gastric Diseases, Trauma, dockim@jnu.ac.kr]
- Young Kyu Park
  [Professor, Gastric Cancer and Benign Gastric Diseases, parkyk@jnu.ac.kr]
- Oh Jeong
  [Professor, Professor, Gastric Cancer, Benign Colorectal Diseases, surgeonjeong@yahoo.co.kr]
- Ho Gun Kim
  [Associate Professor, Gastric Cancer and Benign Gastric Disease, Laparoscopic Surgery, gastrectomy@hotmail.com]
- Mi Ran Jung
  [Assistant Professor, Gastroenterologic Surgery, miranjung0714@gmail.com]

Colon and Rectal Surgery

- Hyeong Rok Kim
  [Professor, Colorectal Cancer, Benign, Proctology, Trauma, drkhr@jnu.ac.kr]
- Jae Kyun Ju
  [Professor, Colorectal cancer, Benign anal disease, Inflammatory bowel disease, jkju@jnu.ac.kr]
- Chang Hyun Kim

[Associate Professor, Colon and Rectal Surgery santiagokim@jnu.ac.kr]
- Soo Young Lee
  [Associate Professor, Colon and Rectal Surgery syleecrs@jnu.ac.kr]
- Han Duk Kwak
  [Associate Professor, Colon and Rectal Surgery galaxy9135@naver.com]

Hepaticobiliary and Pancreatic Surgery

- Chol Kyoon Cho
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, ckcho@jnu.ac.kr]
- Yang Seok Koh
  [Assistant Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, koh88@dreamwiz.com]
- Young Hoe Hur
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, surgihur@naver.com]
- Hee Joon Kim
  [Associate Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation frvyoung@naver.com]

Endocrine Surgery

- Min Ho Park
  [Professor, Professor, Breast Cancer, Endocrine Diseases, thokthokl@hanmail.net]
- Jin Seong Cho
  [Associate Professor, Breast Cancer, sabiston@hotmailcom]
- Young Jae Ryu
  [Assistant Professor, thyroid cancer, breast cancer, ryjbrandon@jnu.ac.kr]

Vascular and Transplantation Surgery

- Soo Jin Na Choi
  [Professor, Pediatric, Vascular and Transplantation Surgery, choisjn@jnu.ac.kr]
- Ho Kyun Lee
  [Assistant Professor, Pediatric, Vascular and Transplantation Surgery, hklee@jnu.ac.kr]
- Hyo-Shin Kim
  [Assistant Professor, Vascular and Transplantation Surgery, gideon@jnu.ac.kr]

Traumatic Surgery

- Jung Chul Kim
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, 3rdvivace@hanmail.net]

Trauma Surgery

- Younggoun Jo
  [Assistant Professor, Trauma Surgery thinkjo@jnu.ac.kr]
- Yunchul Park
  [Assistant Professor, Trauma Surgery hellopyc@jnu.ac.kr]

Obstetrics and Gynecology

- Yoon Ha Kim
  [Professor, Perinatology, Genetics, kimyh@jnu.ac.kr]
- Seok Mo Kim
  [Professor, Gynecologic Oncology, seokmo2001@hanmail.net]
- Chul Hong Kim
  [Professor, Urogynecology and Reconstructive Pelvic Surgery General Gynecology, hongkim@jnu.ac.kr]
- Moon Kyung Cho
  [Professor, Endocrinology and Infertility, chomk@jnu.ac.kr]
- Jong Woon Kim
  [Professor, Perinatology, Genetics, jwkimmd@jnu.ac.kr]
- Woo Dae Kang
  [Associate Professor, Gynecologic Oncology,

kangwoodae@gmail.com]
- Ju U Chul
  [Associate Professor, Gynecologic oncology, ddiamo94@jnu.ac.kr]

Pediatrics

- Hoon Kook
  [Professor, Hematopoietic stem cell transplantation for children, Genetic Rare Disease Center, Environmental Heath Center for Childhood Leukemia and Malignancy hoonkook@jnu.ac.kr]
- Chan Jong Kim
  [Professor, Vitamin D metabolism, Congenital adrenal hyperplasia, cjkim@jnu.ac.kr]
- Young Ok Kim
  [Professor, Pediatric neurology, Epilepsy, Child Development ik052@jnu.ac.kr]
- Hee Jo Baek
  [Professor, Pediatric hemato-oncology, Hematopoietic stem cell transplantation for children, pe00069@jnu.ac.kr]
- Eun Song Song
  [Assistant Professor, Neonatology, essong@jnu.ac.kr]
- Hwa Jin Cho
  [Associate Professor, Pediatric Cardiology, Pediatric Critical Care Medicine, chhj98@gmail.com, mdchohj@jnu.ac.kr]
- Eun Mi Yang
  [Associate Professor, Pediatric nephrology, nuts99@naver.com, emyang@jnu.ac.kr]
- Eun Lee
  [Associate Professor, Pediatric allergy and pulmonology, unelee@jnu.ac.kr, unelee@hanmail.net]

Psychiatry

- Il Seon Shin
  [Professor, dementia, geriatric psychiatry, organic mental disorder, isshin@jnu.ac.kr]
- Jae Min Kim
  [Professor, depressive disorders, alcohol and other substance-related disorder, biological psychiatry jmkim@jnu.ac.kr]
- Sung-Wan Kim
  [Professor, schizophrenia, early intervention, youth psychiatry, community mental health swkim@jnu.ac.kr]
- Ju Yeon Lee
  [Associate Professor, child and adolescent psychiatry, developmental disabilities, trauma-related disorders, jylee31@jnu.ac.kr]
- Seung Hyong Ryu
  [Associate Professor, anxiety disorder, bipolar disorder, ryush@jnu.ac.kr]
- Seon Young Kim
  [Professor, psycho-oncology, psychosomatic medicine, consultation-liaison psychiatry, sykimpsy@jnu.ac.kr]
- Hee-Ju Kang
  [Associate Professor, mood disorders, psychosomatic medicine, hjkang82@jnu.ac.kr]

Neurology

- Myeong Kyu Kim
  [Professor, Epilepsy, mkkim@jnu.ac.kr]
- Byeong Chae Kim
  [Professor, Cognitive Neurology, byeong.kim@jnu.ac.kr]
- Man Seok Park
  [Professor, Stroke, Demyelinating Disease, mspark@jnu.ac.kr]
- Seung Han Lee
  [Professor, Neuro-ophthalmology, Neuro-otology, Neuromuscular Disease, nrshlee@jnu.ac.kr]
- Seong Min Choi
  [Professor, Movement Disorder, mvement@jnu.ac.kr]
- Joon Tae Kim

[Professor, Stroke, alldelight2@jnu.ac.kr]
- Tai Seung Nam
[Professor, Neuromuscular Disorder, nts0022@jnu.ac.kr]
- Kang Ho Choi
[Associate Professor, Stroke, Neurodegenerative disease, Headache, Sleep disorder, ckhchoikang@chonnam.ac.kr]
- Soo Hyun Cho
[Assistant Professor, Dementia, Neurodegenerative disease, k906141h@jnu.ac.kr]
- Kyung Wook Kang
[Associate Professor, Epilepsy & Sleep, neurology@jnu.ac.kr]

Dermatology

- Seong Jin Kim
[Professor, Dermatotoxicology, Skin Bioengineering, seongkim@jnu.ac.kr]
- Jee Bum Lee
[Professor, Laser and Light Therapy, Ance, Rosacea, jbmlee@jnu.ac.kr]
- Sook Jung Yun
[Professor, Dermatology, Malignant melanoma, Pigmentation, sjderma@hanmail.net]

Orthopedic Surgery

- Taek Rim Yoon
[Professor, Hip Joint Surgery Biomaterials, tryoon@jnu.ac.kr]
- Sung-Taek Jung
[Professor, Oncology and Pediatric Surgery, stjung@jnu.ac.kr]
- Keun-Bae Lee
[Professor, Foot &Ankle, Fracture & Trauma, Sports Medicine, kbleeos@jnu.ac.kr]
- Jong Keun Seon
[Professor, Knee Joint, Arthroplasty & Sports Medicine, stem cell treatment seonbell@jnu.ac.kr]
- Hyoung-Yeon Seo
[Professor, Spine Surgery, hyseo2001@hanmail.net]
- Myung Sun Kim
[Associate Professor, Shoulder and Elbow Surgery, Hand Surgery, mskim@jnu.ac.kr]
- Kyung Soon Park
[Professor, Hip Joint, Arthroplasty, Osteoporosis and Fracture, chiasma@hanmail.net]
- Sung Kyu Kim
[Associate Professor, Spine, skkim@jnu.ac.kr]
- Sungmin Kim
[Assistant Professor, Oncology and Pediatric Surgery, healingos@jnu.ac.kr]

Neurosurgery

- Shin Jung
[Professor, Brain Tumor Surgery, Skull Base Surgery, Neuro-Oncology, sjung@jnu.ac.kr]
- Tae Sun Kim
[Professor, Cerebrovascular surgery, taesun1963@yahoo.co.kr]
- Jung Kill Lee
[Professor, Spine Surgery, Neurotrauma, jkl@jnu.ac.kr]
- In Young Kim
[Professor, Brain Tumor, Head Injuries, Gamma Knife Radiosurgery, kiy87@hanmail.net]
- Sung Pil Joo
[Professor, Cerebrovascular surgery, Neurotrauma, nsjsp@jnu.ac.kr]
- Kyung-Sub Moon
[Professor, Brain Tumor Surgery, Skull Base Surgery, Gamma Knife Radiosurgery, moonks@jnu.ac.kr]
- Tae Young Jung
[Professor, Brain Tumor Surgery, Neuro-Oncology, jung-ty@jnu.ac.kr]
- You Sub Kim
[Assistant Professor, Cerebrovascular surgery, Neurotrauma, subsub_jh@hanmail.net]

Thoracic and Cardiovascular Surgery

- Kook Joo Na
  [Professor, Thoracic Oncology Thoracoscopic and Robotic Surgery, kjna@jnu.ac.kr]
- In Seok Jeong
  [Professor, Congenital Heart Disease and Mechanical Ciculatory Support, isjeong1201@gmail.com]
- Sang Gi Oh
  [Professor, Adult Cardiac and Vascular Surgery, drosg@hanmail.net]
- Sang Yun Song
  [Professor, General Thoracic Surgery and Thoracoscopic and Robotic Surgery, sysong@jnu.ac.kr]
- Yo Chun Jung
  [Associate Professor, valvular heart disease & arrhythmia, yochuni@naver.com]
- Kyo Seon Lee
  [Associate Professor, Adult cardiac and aortic surgery, Heart transplantation, waytogosun@gamil.com]
- Do Wan Kim
  [Assistant Professor, Trauma, Surgical critical care, extracorporeal membrane oxygenation therapy, maskjoa@hanmail.net]
- Ju Sik Yun
  [Associate Professor, General Thoracic Surgery and Thoracoscopic and Robotic Surgery, jusikyun@gmail.com]

Ophthalmology

- Kyung Chul Yoon
  [Professor, Cornea and external eye diseases, Cataract and refractive surgery, Oculoplasty, kcyoon@jnu.ac.kr]
- Sang Woo Park
  [Professor, Glaucoma, Cataract, exo70@naver.com]
- Hwan Heo
  [Associate Professor, Strabismus, Neuroophthalmology, Pediatric ophthalmology, hwanheo@jnu.ac.kr]
- Yong Sok Ji
  [Assistant Professor, Retina, Uveitis, yongsok.ji@jnu.ac.kr]
- Mi Sun Sung
  [Assistant Professor, Ophthalmology, Glaucoma, sms84831@hanmail.net]
- Hyeon-Jeong Yoon
  [Assistant Professor, Cornea, Cataract, Oculoplasty, yoonhyeonjeong@hanmail.net]

Otolaryngology and Head & Neck Surgery

- Sang Cheol Lim
  [Professor, Head and Neck Surgery, limsc@hanmail.net]
- Hyong-Ho Cho
  [Professor, Pediatric Otorhinolaryngology, victocho@hanmail.net]
- Joon Kyoo Lee
  [Professor, Head and Neck Surgery, joonkyoo@hanmail.net]
- Tae Mi Yoon
  [Professor, Head and Neck Neoplasm Laryngology, loveteam96@hanmail.net]
- Dong Hoon Lee
  [Professor, Rhinology, Skull base surgery, Salivary gland tumor, Pediatric otorhinolaryngology, leen3l@hanmail.net]
- Hyung Chae Yang
  [Assistant professor, Rhinology, Sleep medicine, Allergy, blessed@jnu.ac.kr]
- Sung Su Lee
  [Associate professor, Otology, minsunglss@naver.com]
- Hong Chan Kim
  [Assistant professor, Otology, Voice, earnosethroat@daum.net]

Plastic and Reconstructive Surgery

- Kwang Seog Kim

[Professor, Breast Reconstruction, Hand Surgery, Head and Neck Tumor, Microsurgery, pskim@jnu.ac.kr]
- Jae Ha Hwang
[Professor, Aesthetic Surgery, Trauma psjhhwang@daum.net]

Urology

- Kwangsung Park
[Professor, Sexual Medicine, Prostate disease, uropark@gmail.com]
- Dong Deuk Kwon
[Professor, Uro-oncology, Prostate Disease, Female Urology, urokwon@gmail.com]
- Taek Won Kang
[Professor, Uro-oncology, sydad@hanmail.net]
- Seung Il Jung
[Professor, Uro-oncology, Endourology, Urinary Infection, drjsi51@gmail.com]
- Sun Ouck Kim
[Professor, Pediatric Urology, Female Urology, Neurourology, seinsena@hanmail.net]
- KYUNGJIN OH
[Associate Professor, Endourology, Urinary Trauma and Reconstruction, Urinary Ultrasonography, exeokj@hanmail.net]
- Eu Chang Hwang
[Professor, Urologic Oncology, Genito-urinary infection, urohwang@gmail.com]
- Chung Ho Seok
[Associate Professor, Urologic oncology, Endourology, Sexual Medicine, Andrology, hschung615@gmail.com]

Anesthesiology and Pain Medicine

- Myung Ha Yoon
[Professor, Pain Management, Neuroanesthesia, mhyoon@jnu.ac.kr]
- Sang Hyun Kwak
[Professor, Critical Care Medicine, Cardiothoracic Anesthesia, shkwak@jnu.ac.kr]
- Seong Wook Jeong
[Professor, Anesthetic Pharmacology, Critical Care Medicine, anesman@jnu.ac.kr]
- Jeong Il Choi
[Professor, Pain Management, Neuroanesthesia, jichoi@jnu.ac.kr]
- Hong Beom Bae
[Professor, Critical Care Medicine, Cardiothoracic Anesthesia, nextphil2@jnu.ac.kr]
- Seong Tae Jeong
[Professor, Neuroanesthesia, Critical Care Medicine, anesjst@jnu.ac.kr]
- Hyung Gon Lee
[Associate Professor, Pain Management, Regional Anesthesia, leehg@jnu.ac.kr]
- Woong Mo Kim
[Professor, Pain Management, Regional Anesthesia, kimwm@jnu.ac.kr]
- Seong Heon Lee
[Associate Professor, Anesthetic Pharmacology, Critical Care Medicine, aneshead@jnu.ac.kr]
- Joung Min Kim
[Associate Professor, Cardiothoracic Anesthesia, Transplant Anesthesia, tca77@jnu.ac.kr]

Radiology

- Yun Hyeon Kim
[Professor, Thoracic Radiology cardiovascular Radiology, yhkim001@jnu.ac.kr]
- Yong Yeon Jeong
[Professor, Oncologic Imaging & therapy, Molecular Imaging Gastrointestinal Radiology, yjeong@jnu.ac.kr]
- Woong Yoon
[Professor, Neuroimaging Neurointervention, radyoon@jnu.ac.kr]
- Sang Soo Shin
[Professor, Abdominal, Genito-urinary Radiology, kjradsss@gmail.com]
- Hyo Soon Lim

[Professor, Breast Radiology, nicolas-hs@hanmail.net]
- Suk Hee Heo
[Professor, Abdominal & Genitourinary Imaging, sheo@jun.ac.kr]
- Ilwoo Park
[Associate Professor, Magnetic Resonance Imaging, Hyperpolarized carbon-13 MR Metabolic Imaging, Artificial Intelligence in Medical Imaging, ipark@jnu.ac.kr]
- Seul Kee Kim
[Associate Professor, Neuro/ Head & Neck imaging, kimsk.rad@gmail.com]
- Byung Hyun Baek
[Associate Professor, Neuroradiology & Interventional Neuroradiology, qorqod10@gmail.com]
- Hyoung Ook Kim
[Associate Professor, Interventional Radiology, cnurad232@naver.com]
- Byung Chan Lee
[Associate Professor, Interventional Radiology, lbcroi@naver.com]

Radiation Oncology

- Sung Ja Ahn
[Professor, Radiation Oncology for Lung and Breast Cancer, ahnsja@jnu.ac.kr]
- Taek Keun Nam
[Professor, Radiation Oncology for Gastrointestinal, Genito-Urinary Cancer tknam@jnu.ac.kr]
- Ju Young Song
[Professor, Medical Physics (Radiation Therapy Physics), jysong@jnu.ac.kr]
- Mee Sun Yoon
[Associate Professor, Radiation Oncology for Lung, Breast, Gynecological Cancer, meesunyoon@jnu.ac.kr]
- Jae Uk Jeong
[Associate Professor, Radiation Oncology for Head and neck tumor, Brain tumor, Esophageal cancer, Hepato-biliary-pancreatic malignancies, jujeong@jnu.ac.kr]

Laboratory Medicine

- Jong Hee Shin
[Professor, Clinical Microbiology, shinjh@jnu.ac.kr]
- Myung Geun Shin
[Professor, Diagnostic Hematology, Molecular Diagnostics, Cytogenetics, mgshin@jnu.ac.kr]
- Seung Jung Kee
[Professor, Diagnostic Immunology, Diagnostic Molecular Genetics, sjkee@jnu.ac.kr]
- Hyun Jung Choi
[Associate Professor, Clinical chemistry, hyunjung.choi@jnu.ac.kr]

Nuclear Medicine

- Ho Chun Song
[Professor, Nuclear Neurology, Radionuclide Therapy. Medical Radiation Safety, songhc@jnu.ac.kr]
- Jung Joon Min
[Professor, Molecular Imaging, Cancer Theragnostics, Nuclear Oncology, jjmin@jnu.ac.kr]
- Chang Ho Lee
[Associate Professor, Biomedical optical imaging, Multimodal imaging, Molecular imaging, ch31037@jnu.ac.kr]
- Seong Young Kwon
[Associate Professor, Nuclear Oncology, Radionuclide therapy, kwonsy@jnu.ac.kr]
- Ja Hae Kim
[Assistant Professor, Nuclear Neurology, Radionuclide Therapy, jhbt0607@jnu.ac.kr]
- Sae-Ryung Kang
[Associate Professor, Nuclear Oncology, Infection, Imaging, srkang@jnu.ac.kr]

Emergency Medicine

- Young Il Min
  [Professor, Advanced Cardiac Life Support, Trauma, minyi46@hanmail.net]
- Tag Heo
  [Professor, Cerebral Resuscitation, Toxicology, docheo@hanmail.net]
- Byeong Jo Chun
  [Professor, Toxicology, cbjbawoo@hanmail.net]
- Jeong Mi Moon
  [Professor, Toxicology, Resuscitation, drmjm@hanmail.net
- Kyung Woon Jeung
  [Professor, Resuscitation, neoneti@hanmail.net]
- Hyun Ho Ryu
  [Professor, Trauma, oriryu@hanmail.net]
- Byung Kook Lee
  [Professor, Resuscitation, bbukkuk@hanmail.net]
- Yong Hun Jung
  [Associate Professor, Resuscitation, jungyh@cnuh.com]
- Sung Min Lee
  [Associate Professor, EMS, Trauma, Hyperbaric Medicine, em00058@jnu.ac.kr]
- Dong Hun Lee
  [Associate Professor, Resuscitation, Cardiac arrest, Trauma, ggodhkekf@hanmail.net]
- Lee Hyoung Youn
  [Associate Professor, Prehospital trauma life support, Advance trauma life support, Emergency medicine, Resuscitation, apostle09@jnu.ac.kr]

Physical & Rehabilitation Medicine

- Sam-Gyu Lee
  [Professor, Brain Neuro-Rehabilitation, Neuro-Musculo-Skeletal Pain Rehabilitation, Geriatric Rehabilitation, sam91@jnu.ac.kr]
- Jae-Young Han
  [Professor, Cardiac Rehabilitation, Neuro-Musculo-Skeletal Pain Rehabilitation, Pediatric Rehabilitation, mhanjy@daum.net]
- Min-Keun Song
  [Assistant Professor, Physical and Rehabilitation Medicine, Pediatric Rehabilitation, Neuro-Rehabilitation, Dysphagia Rehabilitation, Neuromuscular Electrodiagnostic Medicine, drsongmk@jnu.ac.kr]
- Park Hyeng-Kyu
  [Associate Professor, PSports rehabilitation, Neuromusculoskeletal rehabilitation, spinal cord injury rehabilitation, Neurorehabilitation, Neuromuscular electrodiagnosis, h22jhan@jnu.ac.kr]

Occupational and Environmental Medicine

- Won-Ju Park
  [Associate Professor, Occupational & Environmental Epidemiology, Workers' Health Policy and Management, wonjupark@jnu.ac.kr]

BioMedical Sciences Graduate Program (BMSGP)

Contact Information
Phone: +82-61-379-2541
E-mail: A5012@jnu.ac.kr
URL: http://biomedicine.jnu.ac.kr/en/

Graduate Studies in BMSGP

The goals of the graduate program in BMSGP are:

1. To train graduate students to be creative biomedical scientists
2. To provide focused education in the three fields: Oncology, Aging Biology and Infection & Immunity.

Degree Requirements

- Master's degree candidates are required to earn 24 credits (4 major subjects), up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam prior to submitting a thesis.

- Master's degree candidates should publish at least one paper in a journal enlisted on SCI(E) as student being author (either 1st or co-author) and his/her thesis adviser being corresponding author. Counted as publication are papers that are either published or e-pub between admission to the BMSGP and application to the thesis defense.

- Doctoral degree candidates are required to earn 36 credits (4 major subjects), up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam prior to submitting a thesis.

- One of the following should be met. All papers should be published in journals enlisted on SCI(E) as student being 1st author and his/her thesis adviser being corresponding author. The journal IF is determined based on the thesis submission year's JCR. Neither books nor case reports are counted as publication. Counted as publication are papers that are either published or e-pub between admission to the BMSGP and application to the thesis defense.
  1) The sum of journal IF in which papers are published should be 7 or more.
  2) One paper published in a journal whose impact factor ranks 10% or less in the Subject Category.

- Master's/Doctoral Combined degree candidates are required to earn 54 credits (4 major subjects), up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam prior to submitting a thesis.

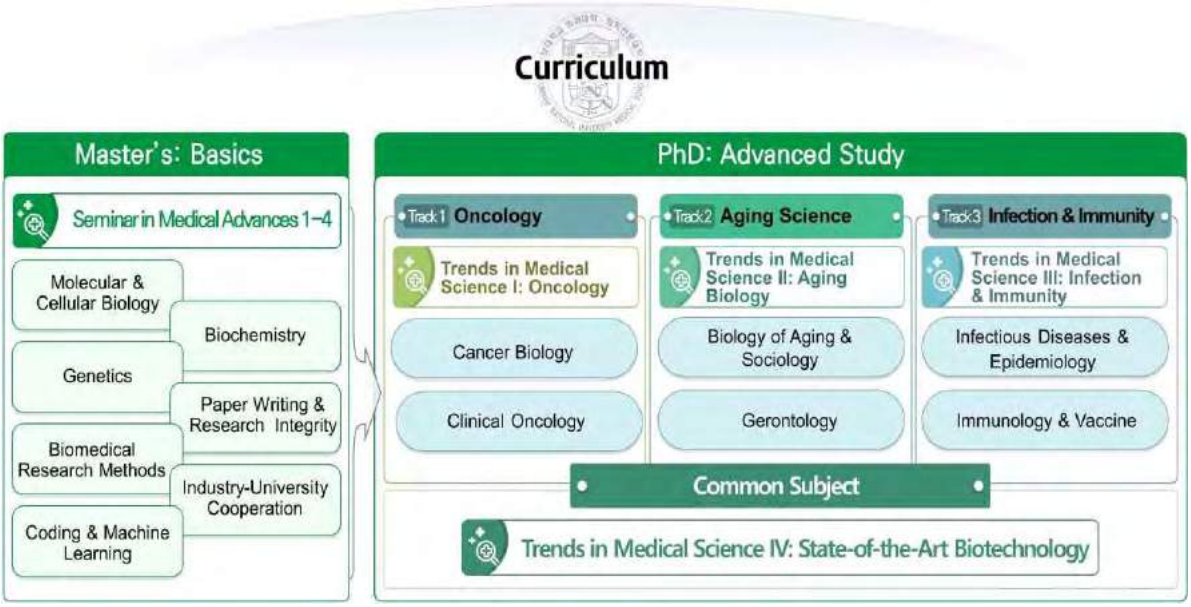
- One of the following should be met. All papers should be published in journals enlisted on SCI(E)

as student being 1st author and his/her thesis adviser being corresponding author. The journal IF is determined based on the thesis submission year's JCR. Neither books nor case reports are counted as publication. Counted as publication are papers that are either published or e-pub between admission to the BMSGP and application to the thesis defense.

1) The sum of journal IF in which papers are published should be 7 or more.

2) One paper published in a journal whose impact factor ranks 10% or less in the Subject Category.

■ What Do You Study?



■ Professors

- Bae, Hong Beom Ph.D. [nextphil2@jnu.ac.kr]
- Bae, Woo Kyun Ph.D. [drwookyun@jnu.ac.kr]
- Cho, Hyong Ho Ph.D. [victocho@jnu.ac.kr]
- Cho, Jae Ho Ph.D. [jh_cho@chonnam.ac.kr]
- Choi, Jeong Il Ph.D. [jichoi@jnu.ac.kr]
- Choi, Seok Yong Ph.D. [zebrafish@chonnam.ac.kr]
- Choi, Yoon Joo Ph.D. [yoonjoo.choi@jnu.ac.kr]
- Chun, Byeong Jo Ph.D. [bjchun@jnu.ac.kr]
- Han, Jae-Young Ph.D. [rmhanjy@daum.net]
- Hong, Yeong Jin Ph.D. [yjhong@jnu.ac.kr]
- Hyun, Hoon Ph.D. [hhyun@jnu.ac.kr]
- Jang, Sujeong Ph.D. [sujeong.jjang@gmail.com]
- Jeong, In-Seok Ph.D. [isjeong1201@gmail.com]

- Jeong, Jae Ho Ph.D. [jeongjaeho@jnu.ac.kr]
- Jeong, Seong Tae Ph.D. [anesjst@jnu.ac.kr]
- Jeong, Yong Yeon Ph.D. [yjeong@jnu.ac.kr]
- Jo, Ji Hoon Ph.D. [Jihoon.Jo@jnu.ac.kr]
- Jung Chaeyong Ph.D. [chjung@jnu.ac.kr]
- Jung, Che-Hun Ph.D. [jungch@jnu.ac.kr]
- Jung, Tae Young Ph.D. [jung-ty@chonnam.ac.kr]
- Jung, Young Do Ph.D. [ydjung@jnu.ac.kr]
- Kim, Hyung Seok Ph.D. [veritas@jnu.ac.kr]
- Kim, Jung Min Ph.D. [jungminkim@jnu.ac.kr]
- Kim, Myeong Kyu Ph.D. [mkkim@jnu.ac.kr]
- Kim, Myung Sun Ph.D. [mskim@jnu.ac.kr]
- Kim, Nack Sung Ph.D. [nacksung@jnu.ac.kr]
- Kim, Soo Hyun Ph.D. [alpinboy@hanmail.net]
- KIM, Tae Jong Ph.D. [ktj1562@jnu.ac.kr]
- Kim, Woong Mo Ph.D. [kimwm@jnu.ac.kr]
- Kim, Young Kook Ph.D. [ykk@jnu.ac.kr]
- Koh, Jeong-Tae Ph.D. [jtkoh@chonnam.ac.kr]
- Kook, Hyun Ph.D. [kookhyun@jnu.ac.kr]
- Kwak, Sang Hyun Ph.D. [shkwak@jnu.ac.kr]
- Kweon, Sun Seog Ph.D. [ujingogo@paran.com]
- Kwon, Seong Young Ph.D. [suninocean@hanmail.net]
- Lee, Hyung Kon Ph.D. [leehg@jnu.ac.kr]
- Lee, Je-Jung Ph.D. [drjejung@chonnam.ac.kr]
- Lee, Ji Shin Ph.D. [jshinlee@jnu.ac.kr]
- Lee, Kyung Hwa Ph.D. [mdkaylee@jnu.ac.kr]
- Lee, Seung Rock Ph.D. [leesr@jnu.ac.kr]
- Lee, Shee Eun Ph.D. [selee@chonnam.ac.kr]
- Lee, Tae-Hoon Ph.D. [thlee83@jnu.ac.kr]
- Min, Jung-Joon Ph.D. [jjmin@jnu.ac.kr]
- Moon, Kyung-Sub Ph.D. [moonks@chonnam.ac.kr]
- Park, Il Woo Ph.D. [ipark@jnu.ac.kr]
- Park, In Kyu Ph.D. [pik96@jnu.ac.kr]
- Park, Sang Woo Ph.D. [exo70@naver.com]
- Rhee, Joon Haeng Ph.D. [jhrhee@jnu.ac.kr]
- Ryu, Je-Hwang Ph.D. [jesryu@jnu.ac.kr]
- Shin, Jong Hee Ph.D. [shinjh@chonnam.ac.kr]
- Shin, Min Ho Ph.D. [mhshinx@jnu.ac.kr]
- Shin, Myung Geun Ph.D. [mgshin@chonnam.ac.kr]
- Song, Juhyun Ph.D. [juhyunsong@chonnam.ac.kr]
- Stan Razvan Ph.D. [strazvan@jnu.ac.kr]
- Yang, Deok Hwan Ph.D. [drydh@jnu.ac.kr]

• Yang, Hyung Chae Ph.D.
[blessed@jnu.ac.kr]
• Yoon, Kyung Chul Ph.D.
[kcyoon@jnu.ac.kr]
• Yoon, Mee Sun Ph.D.
[meesunyoon@jnu.ac.kr]

Interdisciplinary program of Public Health

Contact Information
Tel: +82-61-379-2621
Fax: +82-61-379-2650

■ Graduate Studies in the Interdisciplinary Program of Public Health

Graduate studies in Interdisciplinary Public Health aim to foster academics and professionals with the core skills and research capabilities in protecting public health. In order to accomplish this, we educate students in a variety of techniques, including epidemiology, current progress in public health, medical care, and other spheres.

■ Degree Requirements

Master of Science in Public Health

- The compulsory number of credits is 24 for master's degree
- Students are able to acquire 6 credits each semester.
- The students must pass a comprehensive exam and foreign language exam, as well as submit a thesis for a degree.
- An academic adviser is recommended by a student's request and determined by permission of advising committee.

Doctor of Philosophy in Public Health

- The compulsory requirement of credits is 36 for doctor's degree
- Students are able to acquire 6 credits each semester.
- The students must pass a comprehensive exam and foreign language exam, as well as submit a thesis for a degree.
- An academic adviser is recommended by a student's request and determined by permission of advising committee.

■ What Do You Study?

Infectious disease epidemiology and control
Health Promotion & Health Education
Quantitative Analysis In Medical Science
Advanced Epidemiology
Advanced statistics
International Health
Epidemiology of Chronic Disease
Health Planning
Health ethics
Health Statistics

Epidemiology
Health Economics
Medical Informatics
Health Communication
Survey Method

Community Dental Health
Community Health
Recent seminar in Public Health
Program Evaluation
Environment and Health

■ Professors

- Jun-Ho Shin
  [Professor, Health Policy and Management, jhshinx@gmail.com]
- Min-Ho Shin
  [Professor, Epidemiology, mhshinx@naver.com]
- Sun-Seog Kweon
  [Professor, Cancer Epidemiology, ujingogo@paran.com]
- Hye-Yeon Kim
  [assistant Professor, Health Policy and Management, hykim615@gmail.com]
- Myung Ho Jeong
  [Professor, Cardiovascular Intervention, Hypertension, Atherosclerosis, myungho@chollian.net]
- Young Joon Hong
  [Professor, Intervention, Intravascular Imaging, Atherosclerosis, Hypertension, Lipidology, hyj200@hanmail.net]
- Eun-Kyung Chung
  [Professor, Medical Education, ekcmedu@jnu.ac.kr]
- Hee-Young Shin
  [Professor, Pharmacoepidemiology & Bioethics, hyshin@jnu.ac.kr]
- Duckhee Chae
  [Professor, Community Health Nursing, dheechae@jnu.ac.kr]
- Minjeong An
  [Associate Professor, Adult Health Nursing, anminjeong@jnu.ac.kr]
- Choong-Ho Choi
  [Professor. Preventive & Public Health Dentistry, hochoi@jnu.ac.kr]

Korean Language and Literature

Contact Information
Phone: +82-62-530-3130
Fax: +82-62-530-3140
E-mail: korean3130@hanmail.net
URL: http://korean.jnu.ac.kr/

■ Graduate Studies in Korean Language and Literature

In the Department of Korean Language and Literature, history and structures of Korean spoken and written language are studied scientifically. Also, classical and modern literature are appreciated, criticized, and researched. Spoken language and written language are the most basic methods to express the human mind and a resource to construct the mental system. Therefore, we study the nature of language with the usage of Korean language in life and Korean literature, the essence of language art. The graduate program enables students to understand the history, modes, and rules of Korean language and literature in a deeper sense.

The Department educates students on the theory of speech skills, the theory of literature appreciation, the theory of general writing, and the theory of creative writing, and allows them to put them to practical use to help students improve their language skills, aesthetic sentiments, and writing skills. That is, general studies and education concerning Korean language and literature, development of language skills, and culture of aesthetic appreciation are the aims of this Department.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. The exact courses are determined after consultation between students and academic advisors. Students may earn up to 9 credits per semester, or up to 6 credits per semester for those students with a full-time job. Up to 9 credits may be transferred into the Master's Program, and up to 12 credits into the Ph.D. program.

In order to be eligible for thesis submission, all graduate students must pass a foreign language exam. There are three thesis examiners for smaster's degree candidates and five for Ph.D. candidates. Of the five examiners of a Ph.D. thesis, two come from outside Chonnam National University.

All graduate students are assigned an academic advisor based on research interests.

■ What Do You Study?

Korean Linguistics Major Courses

Studies in Old Korean (3)
Studies in the History of Korean Language (3)
Studies in Korean Lexicology (3)
Studies In Korean Semantics (3)
Studies In Korean Syntax (3)

Studies in the History of Korean Linguistics (3)
Reserch Methodolgy of Korean Linguistics (3)
Studies In Korean Morphology (3)
Studies in the Trends of Literary Thoughts (3)
Studies in 'Hunminjongum' (3)
Philological Studiesof Korean Linguistics (3)
Studies in Modern Korean (3)
Studies in Sociolinguistics (3)
Studies in Cultural Linguistics (3)
Studies in Korean Education (3)
Studies in Textlinguistics (3)
Research of Local Language (3)
Literary Language & Metaphor (3)
Local Languages and Culture Research (3)
Studies in Discourse Analysis and Pragmatics (3)
Studies in the Historical Grammar of Korean (3)
Studies in Korean Phonology concept (3)
Further research in Korean Phonology (3)
Studies in the Loan Character System (3)
Studies in Contemporary general semantics (3)
Studies in Contemporary general Syntax (3)
Further research in the History of Korean Language (3)
Introduction to Studying Korean Linguistics (3)
Further research in Studying Korean Linguistics (3)

Korean Classic Literature Major Courses

Studies in 'Ka-sa' (3)
Research Methodology of Classical Korean Literature (3)
Studies in Old Korean Poetry (3)
Studies in Korean Folklore (3)
Studies in 'Hayng-Ka' (3)
Studies in Poetry of the 'Korea' Dynasty (3)
Studies in 'Si-Jo' (3)
Seminar in SinoKorean Literature (3)
Studies in Classical Korean Novels (3)
Studies in Classical Korean Essays (3)
Studies in Classical Korean Literary Works (3)
Studies in Classical Korean Authors (3)
Topics in Classical Korean Novels (3)
Studies in the History of Classical Korean Novels (3)
Studies in Oral Poetry (3)
Studies in the Korean Folk Narratives (3)
Studies in Sino-Korean Literary Criticism (3)
Studies in the History of SinoKorean (3)
Study of Korea Hansi (3)
Works of Classical Korean Literature (3)
History of Classical Korean Literature (3)
History of Research in Classical Korean Literature (3)
A Study on PANSORI Literature (3)
Studies in Old Korean Literature (3)
Research of Local Culture's Law Data (3)
Research Methodology of Korean Folklore & Oral Literature (3)

Modern Korean Literature Major Courses

Studies in Stylistics (3)
Studies in Middle Korean (3)
Studies In History Of Modern Korean (3)
Studies in Modern Korean Novels (3)
Studies in Modern Korean Poetry (3)
Research Methodology of Modern Literature (3)
Studies in Modern Korean Drama (3)
Studies in Koren Literary Criticism (3)
Studies in the Enlightenment Period Korean Literature (3)
Studies in the Theory of the Poetry (3)
Studies in the Theory of the Novel (3)
Studies in the Theory of Modern Literary Criticism (3)
Studies in Descriptive Methodology of Modern Korean Literary History (3)
Studies in History of Korean Poetry (3)
Studies in History of Korean Novels (3)
Studies in the History of Modern Korean Literary Criticism (3)
Topics in Modern Korean Poets (3)
Topics in Literary Theory (3)
History of Studies in Modern Korean Literature (3)
Studies in Theory of Modern Korean Drama (3)
Seminar in Contemporary Korean Literature (3)
Studies in Drama (3)
Studies in the History of Korean Modern Theatre (3)
Topics in the Honam Literature (3)
Topics in Modern Korean Author (3)
Fiction Writing Theory (3)

Professors

- Shin-Chung Kim, Ph.D.
  [Professor, Classic Korean Literature, sckim@jnu.ac.kr]
- Hwan-Mo Lim, Ph.D.
  [Professor, Modern Korean Literature, limhm@jnu.ac.kr]
- Dae-Hyun Kim, Ph.D.
  [Professor, Classic Korean Literature, kdh@jnu.ac.kr]
- Hae-Jin Shin, Ph.D.
  [Professor, Classic Korean Literature, hjshin@jnu.ac.kr]
- Hyun-Mi Back, Ph.D.
  [Professor, Modern Korean Literature, hmback@jnu.ac.kr]
- Il-Gu Jang, Ph.D.
  [Professor, Modern Korean Literature, communit@jnu.ac.kr]
- Chae-Hyung Cho, Ph.D.
  [Professor, Korean Linguistics, chochaehyung @jnu.ac.kr]
- Seung-Joo Baek, Ph.D.
  [Associate professor, Korean Linguistics, righttodream@jnu.ac.kr]
- Kyung-Sun Jo, Ph.D.
  [Associate professor, Korean Linguistics, puppetjks@jnu.ac.kr]
- Jun-Hwan Yi, Ph.D.
  [Associate professor, Korean Linguistics, yujunhwan@naver.com]
- Jeong-hoon Han, Ph.D.
  [Assistant professor, The culture for Korean language and literature, ganghon78@jnu.ac.kr]
- Jun Choi, Ph.D.
  [Assistant Professor, Korean Linguistics, cjuni@jnu.ac.kr]

English Language and Literature

Contact Information
Phone: +82-62-530-3150
Fax: +82-62-530-3159
URL: http://ell.jnu.ac.kr

■ Graduate Studies in English Language and Literature

The Department of English Language and Literature has a thriving postgraduate program. The Department's program aims primarily to train future teachers of all kinds, from those who wish to work in large public universities and small undergraduate colleges to those who will engage themselves in English language teaching in various types of institutions. The program emphasizes the ability to develop analytical and critical thinking, as well as the ability to master innovative and scholarly work in specialized fields.

The program comprises two core areas of study: Linguistics and Literature in English. The area of Linguistics in English includes specializations in English Syntax, English Semantics, and English Phonology. The area of Literature in English includes specializations in English Poetry, English Novels, and English Drama. The Department offers many courses that focus on literary genres and critical theories, as well as studies in the chronological periods of British literature, American literature, and Anglophone world literature.

The program is now in the process of expanding its field of study, so that it may become more inclusive of contemporary interdisciplinary studies such as cultural studies, gender studies, and film studies. Another important change in the program will be to integrate Applied Language Studies in order to offer a diploma in English as an International Language.

■ Degree Requirements

Master's degree candidates must earn 24 credits and pass a foreign language exam and a qualifying exam based on the list of subjects provided by the Department. Students must also submit a thesis of original scholarly and critical work, signed and approved by the committee of three faculty members.

Ph.D. candidates must earn 36 credits and pass two foreign language exams and a qualifying exam based on a list of subjects provided by the Department. Students must also submit a dissertation, an original and substantial work of scholarship, signed and approved by the committee of five faculty members.

■ What Do You Study?

Major Courses in Literature

Boundary-crossing Literature and Culture
Gender and Nation in Early Modern English Literature
Human Right in Glocal Culture
Glocal Communication and Solidarity

The arts of Eastern and Western nations with Aesthetics
Diaspora Literature
Body and Memory in Literature
Literature and Testimony
Literary Imagination and Cultural Transformation
Mapping Cultural Memory
Culture Art and Philosophy
American Ecopoetics and Natural Communities
American Fiction: Capital and Technology
Tradition of American Fiction: Individual and Society
(Trans)nationalism in Multi-ethnic Literatures of the US
Body and Gender/Sexuality in American Poetry
American Poetic Traditions: Individuality and Democratism
Ecocriticism, Science, and Technology
Narrative Desire and Narrative Accountability
Cross-cultural world and Philosophy
Shakespeare and Modernity
Irish Studies: Politics of Memory
Historical Wounds in Literature
English Modernist Fiction
Tradition of English Fiction: Capital, Race, Hierarchy
English Poetic Traditions: Mourning and Melancholy
English Literature and Studies of Human Bodies
British and American Literacy Criticism
Research Methods in English Literature
Special Topics in British & American Literature
Pro-seminar in English Literature
Special Topics in British and American Culture
English Poetry and Trauma
English Speaking World Literature
Human Rights in Film and Literature
Human Rights and Welfare
Representation, Comparison, and Translation
Protest Literature and Music
Medieval English Literature
Contemporary American Fiction: Acculturation
Language, Memory, Subjectivity in Contemporary American Poetry
Multi-culturality, Ethnicity, Gender: Contemporary British Fiction
Technology and Digital Humanities
Transnational English Poetry
British and American Novel in the Posthuman World
Contemporary Literary Theory
Modern Anglo-American Drama and Performativity

Major Courses in Language

Elementary English Phonology
Discourse Analysis theory and practice
Laboratory Phonology
Psycholinguistics
Special Topics on Psycholinguistics
Language Processing and Cognitive Science
Historical Linguistics
Teaching English as a Foreign Language
English Pedagogic Grammar
Testing in TEFL
Special Topics on Testing in TEFL
English Education Seminar
English Discourse and Grammar
English Acquisition
Special Topics on English Acquisition
English Phonology
Advanced English Phonology
Topic in English Phonology
English Semantics
Topics in English Semantics
English Syntax
Research Method in English Linguistics and Applied Linguistics
Special Topics on Research Method in English Linguistics and Applied Linguistics
Special Topics in English Linguistics
English Pragmatics
Corpus Data Analysis
Text Analysis with Python

Other Courses

Research Training 1 (3)
Research Training 2 (3)
Research Guidance 1 (3)
Research Guidance 2 (3)
Research Guidance 3 (3)
Research Ethics and Academic Writing (3)

Professors

- Tae-Un Min, Ph.D.
  [Professor, Modern British Fiction, aeun@chonnam.ac.kr]
- Seung-Hee Roh, Ph.D.
  [Professor, Shakespeare and Gender Studies, over@chonnam.ac.kr]
- Mi-Ra Oh, Ph.D.
  [Professor, English Phonology, mroh@chonnam.ac.kr]
- Yoon-Hee Na, Ph.D.
  [Professor, Principles of English Language Teaching, yhna@hanmail.net]
- Seunghyun Baek, Ph.D
  [Professor, Applied Linguistics, sh3940@jnu.ac.kr]
- Keun Young, Shin, Ph.D
  [Professor, Syntax-Semantics, kyshin@jnu.ac.kr]
- Yeonmin, Kim, PhD.
  [Professor, English Poetry, kogmc@jnu.ac.kr]
- Joori Lee, Ph.D.
  [Associate Professor, Contemporary English Literature, joorilee00@gmail.com]
- Seonghoon Kim, Ph.D.
  [Associate Professor, Contemporary American Literature and Culture, priest23@jnu.ac.kr]
- Euihwack Kang, Ph.D.
  [Associate Professor, Culture Studies and Contemporary American Novel, hanew@gmail.com]

Japanese Language and Literature

Contact Information
Phone: +82-62-530-3210
Fax: +82-62-530-3219
URL: https://nihon.jnu.ac.kr

■ Graduate Studies in Japanese Language and Literature

Graduates can pursue careers in business, the media, the Ministry of Foreign Affairs, trading, and high school and university education systems.

■ Degree Requirements

Characterized by being systematic and in-depth, graduate programs in Japanese Language and Literature and Japanese Studies aim to produce experts able to contribute to the study of Japanese in Korea.

All students may earn up to 9 credits per semester. The Faculty Committee may decide to add to the requirements of graduate students based on their prior transcripts. Master's degree candidates may earn up to 15 additional credits while Ph.D. candidates may earn up to 9. Up to 9 credits may be transferred into a Master's Program and up to 12 credits into the Ph.D. program.

In order to be eligible to submit a thesis, Ph.D. candidates must have at least two papers published in academic journals, including one in an international journal. A master's degree candidate must earn 3 credits from 2 courses outside his/her area of specialization. All students must pass a foreign language exam. There are three examiners for master's degree theses and five for Ph.D. theses. One or more examiners for Ph.D. theses must come from outside of Chonnam National University.

Ph.D. applicants must pass a foreign language entrance exam in English or another foreign language, including German, French, Chinese, Japanese, or Chinese characters.

Each faculty member is limited to teaching 2 courses per semester, with the exception of co-teaching duties.

Master's degree candidates are required to earn 24 credits in order to graduate. Ph.D. candidates are required to earn an additional 36 credits. The exact courses are determined by the Department Head.

The student's supervisor is normally determined near the end of a student's first semester. A supervisor is assigned based on their research interests. In this regard, students are encouraged to provide the Department with a statement of interest no later than one month before the appointment deadline.

Candidates for degrees first submit their thesis proposals to their respective supervisors. Then, their supervisors arrange for them to present their proposals at department-wide meetings.

■ What Do You Study?

Japanese Language Major Courses

Japanese Grammar
Research Methods in Japanese Linguistics
Japanese Linguistics I
Japanese Linguistics II
Theories of Japanese Language Teaching
Reading in Classical Japanese Reading Materials
The History of Japanese Language.
Japanese Phonology
Japanese Phonetics
Ancient Japanese
Modern Japanese
Sociolinguistics
Classical Japanese Language
General Linguistics
Seminar in Japanese Linguistics I
Seminar in Japanese Linguistics II
Sino-Japanese Phonology
Introduction to Interpretation and Translation
Introduction to Applied Linguistics
Second Language Acquisition Theory and Practice
Studies on Modern Japanese Verses

Japanese Literature Major Courses

Method of Japanese Literature Ⅰ
Method of Japanese Literature II
Comparative Literature of Korean and Japanese
Seminar in Comparative Literature of Korean and Japanese
Modern Japanese Literature I
Modern Japanese Literature II
Japanese Popular Culture I
Japanese Popular Culture II
Classical Japanese Poetry
Classical Japanese Prose
Classical Japanese Drama
Comparative Studies in Korean and Japanese Classical Literature
Japanese Literature and Film
Japanese Women's Literature
Sino-Japanese Literature
Special Topics in Modern Japanese Literature
Modern Japanese Novels
Seminar in Basic Translation
Special Topics on Comparative Study of Korean and Japanese Literature
Studies on Japanese Literary Theories
Studies on History of Japanese Poetry and Religion
Studies on Modern Japanese Literary Criticism
Studies in Modern Japanese Religious Literature
Seminar on East Asian Poetry
Seminar on Traditional Japanese Play
Translation Studies in Contemporary Japanese Poetry
Seminar in Translation for Specific Areas
Translation Studies in Modern Japanese Poetry
Seminar on Japanese Translation

Japanese Culture Major Courses

Seminar in Korean and Japanese Comparative Culture
History of Cultural Exchange between Korea and
Japan
Research Methods in Japanese Culture
Japanese Folklore Literature
Seminar in History of Japanese Thoughts
Japanese History
Special Study of Japanese Society
Seminar in Modern Japanese Culture
Seminar in Japanese Folk Belief
Seminar in Japanese Community Society
Seminar in Korean and Japanese Mass Culture
Intercultural Communication
Special Lecture
Japanese Education and Information
Research Methods in Japanese Education 1
Research Methods in Japanese Education 2
Seminar in Japanese Folklore
Seminar in Japanese Culture
Seminar on Japanese Studies
Seminar on East Asian Culture
Seminar on Contemporary Japanese Society
Seminar on Japanese Language and Thoughts
Seminar on Japanese Culture and Thoughts
Seminar on Japanese Society and Culture

Seminar on Religious Culture in Japan
Seminar on Korea-Japan Relations
Seminar in Korean and Japanese Comparative

■ Professors

- Jung-Rye Kim, M.A.
  [Professor, Japanese Literature, kjrey@chonnam.ac.kr]
- Yong-Ui Kim, Ph.D.
  [Professor, Japanese Culture, yukim@chonnam.ac.kr]
- Dae-Sung Kim, Ph.D.
  [Professor, Japanese Linguistics, hanbyeol@chonnam.ac.kr]
- Sung Un Jeong, Ph.D.
  [Associate Professor, Japanese Literature, sujeong@chonnam.ac.kr]
- Seong-Eun Kim, Ph.D.
  [Assistant Professor, Japanese Thought, jnu2012@chonnam.ac.kr]
- Jiyoung-Lim, Ph.D.
  [Professor, Japanese Linguistics, jy-lim@jnu.ac.kr]
- Hyeon Il Moon, M.A.
  [Guest Professor, Japanese Linguistics, moonhagi@chonnam.ac.kr]
- Iida Saroi M.A.
  [Guest Professor, Korean Linguistics, saori77@chonnam.ac.kr]

■ Laboratories

The Seminar Room (room 409 in Liberal Arts Building 2) is reserved for graduate students' seminars. This room can also be used as a study space.

The resource room (room 114 in the Liberal Arts Building 2) houses theses from Korean and overseas universities, periodicals published abroad and at home, and a variety of visual materials and related equipment.

Chinese Language and Literature

Contact Information
Phone: +82-62-530-3200
Fax: +82-62-530-3209
URL: http://china.jnu.ac.kr

■ Graduate Studies in Chinese Language and Literature

By training students in analytic skills across general and particular academic areas, the Department produces professionals in Chinese Language and Literature.

■ Degree Requirements

The Department of Chinese Language and Literature provides a program in comparative literature as part of graduate studies. The program aims to equip students with the skills needed to apply their expertise in Chinese in Language and Literature as well as to advance studies in Korean Language and Literature.

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. The exact courses will be selected by their upon consultations between supervisors and students. All students are not allowed to take more than 9 credits per semester.

Students in joint master's and Ph.D. programs are not required to earn additional credits. Up to 9 credits may be transferred into a Master's Program, and up to 12 into a Ph.D. program.

In order to be eligible to submit a thesis, students must pass a foreign language exam. There are three committee members for master's degree theses and five for the Ph.D. dissertation.

■ What Do You Study?

GRADUATE COURSES
Contemporary Chinese Literature (3)
Modern Chinese Novels (3)
Modern Chinese Literary Criticism (3)
Modern Chinese Prose (3)
Modern Chinese Poems (3)
Ancient Chinese Phonology (3)
Archaic Chinese Phonology (3)
Chinese Commentariology (3)
Chinese Dialectology (3)
Chinese Ideography (3)
Chinese Linguistics (3)
Chinese Mythology and Primitive Culture (3)
Chinese Phonology (3)
Chinese Semantics (3)
Classical Chinese Grammar (3)
Comparative Studies in Culture of Korean and Chinese (3)
History of Chinese Linguistics (3)
History of Chinese Literary Thoughts (3)
History of Chinese Speech Sound (3)
Introduction to Chinese Culture (3)
Methodology of Classical Chinese Literature (3)
Modern Chinese Grammar (3)
Practical Exercise in Chinese Language and Culture 1 (3)
Practical Exercise in Chinese Language and Culture 2 (3)
Research for Master's or Doctoral Degree (3)
Research on Chinese Cultural Narrative (3)

Seminar in Literary Debates in Modern Chinese Literature (3)
Seminar in May Fourth Literature (3)
Seminar in Methods of Research in Modern Chinese (3)
Seminar in Modern Chinese Literature (3)
Seminar in New Era Literature (3)
Special Studies in Classical Chinese Drama (3)
Special Studies in Chinese Culture (3)
Special Studies in Chinese Prose (3)
Special Studies of Classical Chinese Novels (3)
Special Studies of Chinese Classics (3)
Special Studies of Chinese Grammar (3)
Special Studies of Chinese Ideography (3)
Special Studies of Chinese Linguistics (3)
Special Studies of Chinese Literary Criticism (3)
Ancient Literary Criticism Works (3)
Chinese Regional Culture (3)
Ancient Chinese Poems (3)
Arts Performance (3)
Bone Inscription and Bronze Inscription (3)
Chinese Aesthetics (3)
Chinese Cinema History (3)
Chinese Classic Drama (3)
Chinese Classic Drama Criticism (3)
Classical Chinese Novels (3)
Classical Chinese Prose (3)
Chinese Folklore (3)
Chinese Life Culture (3)
Chinese Literary History (3)
Chinese Literature and Film Arts (3)
Chinese Novel Criticism and Theories (3)
Chinese Publication History (3)
Chinese Rhetoric and Lexicology (3)
Chinese TV Drama (3)
Ci-Fu (3)
History of Culture Exchange between Korea and China (3)
Jiang-chang (recite-chant) Literature (3)
Modern Chinese Drama (3)
Modern Chinese Literature (3)
Modern Chinese Works (3)
Original Types in Chinese Culture (3)
The Cultures of Minority Nationality (3)
Modern Chinese Writers (3)
Chinese Verse Literature (3)
Ci-qu (3)
Rhyme Dictionaries (3)
Rhyme Tables (3)
Tang-Song Prose (3)

■ Professors

- Hoi-Seok Yang, Ph.D.
  [Professor, Chinese Literature, hoisyang@jnu.ac.kr]
- Man-Jong Oh, Ph.D.
  [Professor, Chinese Literature, oumj6011@jnu.ac.kr]
- Tai-Wan Kim, Ph.D.
  [Professor, Chinese Linguistics, lomloy@jnu.ac.kr]
- Joo-No Lee, Ph.D.
  [Professor, Chinese Literature, zhongljn@jnu.ac.kr]
- Chun-Seok Jang, Ph.D.
  [Professor, Chinese Literature, jangchun@jnu.ac.kr]
- Bao-Yu Xu, Ph.D.
  [Professor, Chinese Literature, bao123@jnu.ac.kr]
- You-Mi Moon, Ph.D.
  [Assistant professor,Chinese Linguistics, xiammi@jnu.ac.kr]
- Hee-Kyung Lee, Ph.D.
  [Associate Professor, Chinese Literature, xiammi@jnu.ac.kr]

■ Laboratories

A seminar room (room #409 in the Liberal Arts Building #2 and room #206 in Liberal Arts Building #1) houses master's and doctoral thesis from overseas or Korean universities, Korean and foreign periodicals, and various visual resources.

German Language and Literature

Contact Information
Phone: +82-62-530-3170
Fax: +82-62-530-3179
URL: http://german.jnu.ac.kr

■ Graduate Studies in German Language and Literature

The Department of German Language and Literature provides a graduate program in comparative literature. The program is aimed to equip students with the skills needed to apply their expertise in German Language and Literature while advancing studies in Korean Language and Literature.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. The exact courses are determined upon consultation between students and supervisors. All students may earn up to 9 credits per semester.

Up to 9 credits may be transferred into the Master's Program, and up to 12 into the Ph.D. program. In order to become eligible to submit a thesis, students must first pass a foreign language test. A Ph.D. candidate must pass tests in German and English.

There are three external examiners for the master's degree and five for the doctoral degree. Of the five examiners of a Ph.D. thesis, two come from outside of Chonnam National University.
All students are assigned to academic advisors based on their research interests.

■ What Do You Study?

Comparison of Korean and German Literature (3)
Contemporary German Novels (3)
German Kinder und Jugendliteratur (3)
German Classical Literature (3)
German Classicism and Romanticism (3)
German Literature and Arts (3)
German Literature and German Philosophy (3)
German Literature in the 20th Century (3)
Modern European Drama and Play (3)
Modern German Literature (3)
Modern German Poetry (3)
Modern German Theater (3)
Recent German Drama and Theater (3)
Special Studies in German Literature I (3)
Special Studies in German Literature II (3)
Special Topics in German Literature I (3)
Special Topics in German Literature II (3)
Special Topics in German Literature III (3)
German Drama (3)
German Eco-Literature (3)
German Feminist Literature (3)
German Literature Engagement (3)
German Modern Literature (3)
German Novels (3)
German Poetry (3)
Korean and German Comparative Literature (3)
Literary Criticism and Essays (3)
German Contemporary Literature (3)

German Writers I (3)
German Writers II (3)
German Writers III (3)
German Writers IV (3)
Themes in German Literature I (3)
Themes in German Literature II (3)
Theory of Comparative Literature (3)
Theory of Trends of German Literature (3)
Theory on German Literaturwissenschaft (3)
Modern German Literature I (3)
Modern German Literature II (3)
German Realism and Naturalism (3)
German Romantic Literature (3)
German Literature in the 20th Century I (3)
Hermeneutics (3)
Literature and Text Linguistics (3)
Modern Critical Theory (3)

■ Professors

- Ja-Kyung Cho, Ph.D.
  [Associate Professor, German Linguistics, jkcho@jnu.ac.kr]
- Myeong-Soon Jeong, Ph.D.
  [Professor, German Literature, msnjeong@jnu.ac.kr]
- Dong-Min Choi, Ph.D.
  [Professor, German Literature, dmchoi@jnu.ac.kr]
- Jeong-Ae Choi, Ph.D.
  [Professor, German Area Study, ja@jnu.ac.kr]
- Yoojung Jeon, Ph.D.
  [Professor, German Literature, jeonyj@jnu.ac.kr]
- Chirin Eisele
  [Invited Professor, German Linguistics, chirin@jnu.ac.kr]

■ Laboratories

The Department has one seminar room (room #307 in the 2nd Humanities Building), which doubles as a study space for graduate students.

The resource room (room #103 in the 2nd Humanities Building) houses theses from overseas and Korean universities, periodicals published abroad or at home, and a variety of visual materials.

French Language and Literature

Contact Information
Phone: +82-62-530-3190
Fax: +82-62-530-3199
URL: http://french.jnu.ac.kr

■ Graduate Studies in French Language and Literature

The Department has contributed to cultural exchanges between Korea and France, thus advancing Korean culture. Graduates have also played an important role in improving Korea's relationships with Europe and Africa.

■ Degree Requirements

Characterized by being systematic and in-depth, the Department's graduate programs aim at producing experts in French Language and Literature. These experts can also contribute to advancing studies in Korean Language and Literature.

In order to establish eligibility for degrees, master's degree and Ph.D. candidates have to earn at least 12 and 18 credits, respectively. In principle, full-time students and part-time students can respectively earn up to 9 and 6 credits per semester. Supplementary credit requirements for a student may be made based on the student's previous transcripts. Master's degree and Ph.D. candidates may earn up to 12 and 9 supplementary credits respectively.

In order to be eligible to submit a thesis, graduate students must pass a foreign language exam. Ph.D. candidates must pass both French and English language exams.

There are three examiners for the master's degree and five for the Ph.D. theses. Up to three (master's) and four (Ph.D.) thesis examiners come from within the Department. At least one or more thesis examiners for the Ph.D. must come from outside Chonnam National University.

All students are assigned a supervisor based on research interest. A faculty member can supervise up to three master's students and up to five Ph.D. students from the same class.

■ What Do You Study?

The Late 19th Century Novel (3)
Special Topics in Structural Linguistics (3)
The Problem of Writing (3)
Nouveau Roman (3)
Methods of Discourse Analysis (3)
Conversational Analysis (3)
Sociolinguistics (3)
Existentialist Novel (3)
Psycholinguistics (3)
Lexicology (3)
Philosophy of Language (3)
Semantics (3)
Feminist Literature (3)
Pragmatics (3)
Sociology of Novel (3)
Medieval Poetry (3)
Medieval Roman (3)
The Aesthetics of 18th Century (3)
Studies in Methodology of French Language Education (3)
Lexicography (3)
The Critics of Mythology and Hermeneutics of Text

(3)
The Early 20th Century Novel (3)
Theories of French Versification (3)
French Poetics of the Lyric (3)
Studies in French Films (3)
Nouvel Vague (3)
Myth and Literature (3)
Literature and Psychoanalysis (3)
Literature of War (3)
The Mordern Art of French (3)
French Area Studies (3)
Studies in French Popular Culture (3)
European Culture Analysis (3)
Research on the space cultural and communication (3)
Studies in French Cultural Administration and Policy (3)
Studies in french culture marketing (3)
Topics in comedy (3)
Topics in tragedy (3)
Drama and performance (3)
Topics in reception of French drama (3)
Special Topics in Semantics (3)
Topics in French cultural cities (3)
Topics in French cultural industries (3)
Topics in French complex cultural space (3)
Topics in French performing art (3)
Special topics in cultural area of French language (3)
Renaissance literature (3)
Topics in literature of enlightenment (3)
Topics in fiction of early-romanticism (3)
Topics in fiction of romanticism (3)
Topics in fiction of realism (3)
Topics in fiction of naturalism (3)
Topics in poetry in the sixteenth century (3)
Topics in poetry of romanticism (3)
Topics in poetry of symbolism (3)
Topics in poetry of surrealism (3)
Topics in French present poetry (3)
Topics in classical drama in the middle ages (3)
Topics in modern/present drama (3)
Topics in moralist literature (3)
Topics in fiction authors (3)
Special topics in literary criticism (3)
Topics in structuralism (3)
Topics in modern literary criticism (3)
Methods of fiction analysis (3)
Methods of poetic analysis (3)
Topics in drama analysis (3)
Topics in new criticism (3)
Theory of modern language (3)
Research methods in linguistic study (3)
History of French language (3)
History of French language study (3)
Phonology (3)
Special topics in phonology (3)
Studies in phrase (3)
Methods of syntactical analysis (3)
Special topics in syntax (3)
Theory of modern grammar (3)
French stylistics (3)
Interpretation and translation studies (3)

■ Professors

- Min Choi, M.A.
  [Professor, French Literature, mchoi@jnu.ac.kr]
- Jae-Han Ryu, Ph.D.
  [Professor, French Literature, jh2059@jnu.ac.kr]
- Chae-Kwang Lim, Ph.D.
  [Professor, French Literature, cklim@jnu.ac.kr]
- Young-Dong Ha, Ph.D.
  [Professor, French Linguistics, ydha@jnu.ac.kr]
- Tae-Hoon Kim, Ph.D.
  [Professor, French Culture, remine@jnu.ac.kr]
- Jin-Young Min, Ph.D.
  [Professor, French Culture, sahara@jnu.ac.kr]
- Soue-Won Rhee, Ph.D.
  [Associate Professor, French Culture, souewon-rhee@jnu.ac.kr]
- Sung-Wook Moon, Ph.D.

[Assistant Professor, French Literature, moon.sungwook@jnu.ac.kr]

• Lionel BREUGNON [Invited Professor, French Conversation, lionel@jnu.ac.kr]

■ Laboratories

The Seminar Room (Room #205 in the 1st Humanities Building) is reserved for graduate students' seminars. This Seminar Room can be also used as a study space. The Resource Room (Room #102 in the 2nd Humanities Building) holds theses from domestic and overseas universities, domestic and overseas periodicals, and a variety of visual materials and related equipment.

Philosophy

Contact Information
Phone: +82-62-530-3220
Fax: +82-62-530-3229
URL: http://philos.jnu.ac.kr/

■ Graduate Studies in Philosophy

The objective of the Department of Philosophy is to explore the origins of the world and the nature of human beings. The graduate program in Philosophy educates students to be qualified faculty members, researchers, or equivalent professionals.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits, up to 10 credits each semester. Candidates also have to pass a comprehensive exam and foreign language exam as well as submit a thesis.

Ph.D. candidates are required to earn 36 credits and pass a comprehensive exam and foreign language exam. Students must also submit a dissertation. An academic advisor is appointed to each graduate student based on the student's interest and with the permission of the advising committee.

■ What Do You Study?

Contemporary Korean Thoughts (3)
Seminar on Conflict and Peace (3)
Economy·Management and Philosophy (3)
Studies in Philosophy of Confucius and Mencius (3)
Science·Technology and Philosophy (3)
Special lecture on The Glocal humanities (3)
Human Right in Glocal Culture (3)
Glocal Communication and Solidarity (3)
Studies in Philosophy of Lao-Tzu and Chung-Tzu (3)
Studies of "Discussion Theories" (3)
Topics in Tsoism Philosophy (3)
Eastern and Western nation's values and Moral philosophy (3)
Study on Philosophy of Law of East and West (3)
Comparative Studies in East and West Thought (3)
Eastern and Western nations with Philosophy of law (3)
The arts of Eastern and Western nations with Aesthetics (3)
Special Lecture on Eastern and Western Ethical Theory of History (3)
Natural philosophy of Eastern and Western nations (3)
Special Lecture on Eastern and Western natural Philosophy (3)
Comparative Studies on Eastern and Western Philosophical Research Method (3)
Metaphysics of Eastern and Western Philosophy (3)
Study on Metaphysics of East and West (3)
East Asian Buddhism (3)
The Study of East Asia Thought Exchanges History (3)
Curating for Oriental Philosophy Text (3)
Digital Humanities and Regional Texts (3)
Culture·Art and Philosophy (3)
Topics in Philosophy of Culture and Arts (3)
Studies in Cultural Philosophy (3)
Seminar in Cultural Philosophy (3)
Studies in Aesthetics (3)
Studies in Legal Philosophy (3)
Philosophical Study of Welfare Society (3)
Paradigm of Welfare and Philosophy (3)

Topic in Analytic Philosophy (3)
Studies in Buddhism Philosophy (3)
Buddhist Ethics (3)
Indian Buddhist Epistemology (3)
Studies in Critical Philosophy (3)
Curating for Social Problem Solving (3)
Social Welfare and Humanities and welfare (3)
Social exclusion and solidarity (3)
Society·Politics and Philosophy (3)
Education Seminar in Socical Philosophy (3)
Seminar in Social Philosophy (3)
Seminar in Chinese Madhyamaka Thoughts (3)
Seminar in Bioethics (3)
Seminar in Ancient Western Philosophy (3)
Topics in Ancient Western Philosophy (3)
Study of Modern European Philosophy (3)
Semianr in Modern (3)
Critical History of Western Civilization (3)
Studies in Zen Thoughts (3)
Cross-cultural world and Philosophy (3)
Study of classics on The world's intercultural philosophy (3)
Philosophical Education for Estrangement class 1 (3)
Philosophical Education for Estrangement class 2 (3)
Philosophic academy for Citizen 1 (3)
Philosophic academy for Citizen 2 (3)
Studies in Pragmatism (3)
Studies in Existential Philosophy (3)
Seminar in Practical Science Thought (3)
Aristotle Ⅰ (3)
Aristotle Ⅱ (3)
Studies in Philosophy of Wang Yangming (3)
Language?Communication and Philosophy (3)
Education Seminar in Philosophy of Language (3)
Topics in the Philosophy of Language (3)
Education Seminar in Philosophy of History (3)
Research Training 1 (3)
Research Training 2 (3)
English Literature and Studies of Human Bodies (3)
Education Seminar in Education Philosophy of Art (3)
Studies in Philosophy of Art (3)
Seminar in Won-hyo's Thoughts (3)
Topics in Confucianism Philosophy (3)
Curating on European Classical Philosophy (3)
Curating on European Modern Philosophy (3)
Studies in Yogacara Philosophy (3)
Seminar in Applied Ethics (3)
Theory and Praxis (3)
Human Rights and Welfare (3)
The Mode of Writing a History of Indian Philosophy (3)
Indian Philosophy Seminar (3)
Seminar on Indian Philosophical Schools (3)
Special lecture on Education of philosophy for The welfare of humanity (3)
The theory and practice of Humanities and welfare (3)
Humanities and Peace Theory & Practice1 (3)
Humanities and Peace Theory & Practice2 (3)
Topics in Epistemology (3)
Studies in Cognitive Science (3)
Seminar in Information Ethics (3)
Studies in Political Philosophy (3)
Seminar in The Hundred Schools of Thought (3)
Seminar in Korean Confucianism in Yi-Dynasty (3)
Special Seminar on the Late Joseon Pracitical-Learning (3)
Topics in Ontology (3)
Topic in Philosophy of Religion (3)
Studies in Madhyamaka Philosophy (3)
Study of Ancient Chinese Philosophy (3)
Studies in Chinese Buddhism (3)
Studies in Chinese Neo-Confucianism (3)
Local classical literature translation and interpretation Ⅰ (3)
Local classical literature translation and interpretation Ⅱ (3)
Studies in Tien-tai and Hua-Yem Thoughts (3)
Contents Designing in Philosophy (3)
Philosophy Curating Study & Research Ethics1 (3)
Philosophy Curating Study & Research Ethics2 (3)
Curating Philosophy 1 (Beginning) (3)
Curating Philosophy 2 (Intermediate) (3)
Philosophical Education for Teenager 1 (3)
Philosophical Education for Teenager 2 (3)
Studies in Kant's Practical Philosophy (3)
Studies in Kant's Ethics (3)
Study on Kant's theoretical philosophy (3)
Study of the Kantian Philosophy (3)
Text Analysis with Python (3)

Practice on the Philosophy of Peace (3)
Practice on Violence and Peace (3)
Plato Ⅰ (3)
Plato Ⅱ (3)
Interdisciplinary Philosophical Research Method (3)
Studies in Korean Buddhism (3)
Study on Korean Practical-Learning (3)
Seminar in Comparative Seminarin Confucianism, Taoism and Buddhism (3)
Seminar on Korean Confucianism (3)
Studies in Hermeneutics (3)
Hegel's Philosophy (3)
Topics in Hegel's Philosophy (3)
Seminar in Contemporary German Philosophy (3)
Studies in Modern Legal Philosophy (3)
Study on Changes of Modern Society and Paradigm of Socail Welfare (3)
Contemporary Issues on Practical Ethics (3)
Seminar in Contemporary Anglo-American Philosophy (3)
Seminar in Contemporary Europe Philosophy (3)
Studies in Contemporary Ethics (3)
Seminar in Contemporary France Philosophy (3)
Studies in Phenomenology (3)
Study of Metaphysics (3)
Study in Greek Philosophy (3)
Seminar in Greek Philosophy (3)

■ Professors

- Kang-Seo Rhee, Ph.D.
  [Professor, Ancient Western Philosophy, gsrhee@chonnam.ac.kr]
- Yang-Hyun Kim, Ph.D.
  [Professor, Kant and Practical Philosophy, yhkim2@chonnam.ac.kr]
- Yoon-Ho Cho, Ph.D.
  [Professor, Chinese Buddhism, choyh@chonnam.ac.kr]
- Ku-Yong Park, Ph.D.
  [Professor, Political Philosophy, parksem@chonnam.ac.kr]
- Sang-Bong Kim, Ph.D.
  [Professor, Kant and Aesthetics Philosophy, oudeis@hanmail.net]
- Mi-Ra Chung, Ph.D.
  [Professor, German Idealism and Social Philosophy, mirachung@hanmail.net]
- Kim Su Rasmussen, Ph.D.
  [Professor, History of Ideas and French Philosophy, seokilseung@gmail.com]
- Soon-Ja Yang, Ph.D.
  [Professor, Early Chinese Philosophy, zhaohun@gmail.com]
- Hyoung-Seok Ham, Ph.D.
  [Associate Professor, Indian and Buddhist Philosophy, hamhs@jnu.ac.kr]
- Won-seok Lee, Ph.D.
  [Assistant Professor, Chinese Philosophy_Neo-Confucianism, ophil91@chonnam.ac.kr]

History

Contact Information
Phone: +82-62-530-3240
Fax: +82-62-530-3249
URL: https://history.jnu.ac.kr

■ Graduate Studies in History

Since its establishment along with Chonnam National University in 1952, the Department of History has grown to be one of the most respected departments within the University and in Korea. The Department is certainly the most prestigious in the field of history in the south-western region of Korea.

The Department has 11 full-time faculty members, 17 part-time instructors, 30 full time graduate students. All faculty members are committed to helping students think critically and independently about the human past, and understand how cultures evolved into what they are today. Divided into three areas of study, Korean History, Asian History, and Western History, the areas of expertise among faculty members range across the major geographical and chronological fields in the discipline from ancient Korean History to contemporary US History. The Department enjoys a reputation for excellence in both undergraduate and graduate teaching. The Department offers bachelor's, master's, and Ph.D. degrees in History.

■ Degree Requirements

Master's candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All students are required to pass foreign language exams and a qualifying exam. Prior to submitting a thesis, students must deliver more than one presentation at a Department seminar.

Students are also required to publish more than one paper in an academic journal.

All students are assigned a supervisor after their first semester based on research interests.

■ What Do You Study?

Research for the Master's or Doctoral Degree

East Asia Major Courses

Studies in Reforms and Revolutions in Modern Chinese History (3)
Seminar in Asian History (3)
Topics in Asian History I (3)
Topics in Asian History II (3)
Studies in the History of Asian Historiography (3)
Studies in the History of Chinese Movement (3)
Studies in Chinese Modernization (3)
Studies in Chinese Cultural History (3)
Topics in Chinese Institutional History (3)
Studies in the Aristocratic Institutions of Medieval and Ancient China (3)
Studies in the History of Medieval and Ancient Chinese Thought (3)
Studies in Medieval and Ancient Chinese Political History (3)
Studies in Contemporary Political Thought and

Intellectual History of China (3)
Studies in Government Organizations of Sung, Yuan, Ming, and Ching Dynasties (3)
Studies in Socioeconomic History of Medieval and Ancient China (3)
Studies in Japanese Political History (3)
Studies in Socioeconomic History of Japan (3)
Studies in Chinese Pre-modern History (3)
Studies in Chinese Gentry (3)
Studies in Socioeconomic History of Modern China (3)
Studies in Japanese Feudal Society (3)
Studies in Intellectual History of Japan (3)
Studies in the History of East Asia International Relations (3)

Western History Major

Studies in German History (3)
Studies in Russian History (3)
History of the Renaissance (3)
Studies in American History (3)
Studies in Nationalism (3)
Studies in Western Feudalism (3)
Seminar in Ancient Western History (3)
Seminar in Modern Western History (3)
Studies in History of Western Thought (3)
History of Western Historiography (3)
Seminar in Medieval Western History (3)
Seminar in Contemporary Western History (3)
Theories of History (3)
Studies in British History (3)
History of European Labour Movement and Socialism (3)
Studies in Imperialism (3)
Studies in French History (3)
History of Rome (3)
Studies in Totalitarianism (3)
History of the Reformation (3)
History of American Foreign Policy (3)
History of Revolution (3)
History of Ancient Greece (3)
Research for the Master's or Doctoral Degree (3)

Korean History Major

Studies in Korean Economic History (3)
Topics in Korean Economic History (3)
Studies in Ancient History of Korea (3)
Topics in Ancient History of Korea (3)
Studies in Korean Paleography (3)
Topics in Korean Paleography (3)
Studies in Modern Korean History (3)
Topics in Modern Korean History (3)
Topics in Pre-modern History of Korea (3)
Studies in Korean Epigraphy (3)
Studies in the History of Korean Thought (3)
Topics in the History of Korean Thought (3)
Studies in Korean Historiography (3)
Studies in Korean Social History (3)
Topics in Korean Social History (3)
Studies in Korean Political History (3)
Topics in Korean Political History (3)
Studies in Medieval History of Korea (3)
Topics in Medieval History of Korea (3)
Topics in the History of Korean Historiography (3)
Topics in Korean Epigraphy (3)
Studies in the History of Korean Foreign Relations (3)
Studies in Pre-modern History of Korea (3)
Topics in Contemporary History of Korea
Studies in Contemporary History of Korea (3)
Topics in Korean Institutional History (3)
Seminar in Korean Historical Records 1 (3)
Seminar in Korean Historical Records 2 (3)
Studies in Modern Korean Nationalism (3)
Studies in Local Korean History (3)

■ Professors

- Bong-Joong Kim, Ph.D.
  [Professor, Modern and Contemporary U.S., bjkim@jnu.ac.kr]
- Seon-Ja Yoon, Ph.D.
  [Professor, Modern and Contemporary Korea, yoon0929@jnu.ac.kr]
- Han-Yong Song, Ph.D.
  [Professor, Modern and Contemporary China songhy@jnu.ac.kr]

- Hae-Young Choi, Ph.D.
  [Professor, Ancient Greece and Rome
  chyoung@jnu.ac.kr]
- Sang-Chul Park, Ph.D.
  [Professor, Modern Russia
  sachpak@jnu.ac.kr]
- Byoung-In Kim, Ph.D.
  [Professor, Medieval Korean History,
  kimbi36@jnu.ac.kr]
- Chong-Myong Im, Ph.D.
  [Professor, Modern Korea
  imcmyong@jnu.ac.kr]
- Sung-Won Lee, Ph.D.
  [Professor, Ancient History of China
  luxlee68@jnu.ac.kr]
- Eun-Young Kang, Ph.D.
  [Professor, Ancient History of Japan
  kuare@jnu.ac.kr]
- Pae-Hwan Seol, Ph D.
  [Associate Professor, History of the Mongol Empire, shah@naver.com]
- Chang-Su Kim, Ph.D.
  [Assistant Professor, History of the Joseon Dynasty, hangul47@jnu.ac.kr]

Honam Studies

Contact Information
Phone: +82-62-530-0491
Fax: +82-62-530-
E-mail: honam-jnu@hanmail.net
URL: https://honamstudy.jnu.ac.kr/

■ Graduate Program in Honam Studies

The Department of Honam Studies aims for a regional studies research and integrated education model that will lead the era of decentralization. In addition, it aims to foster professional researchers and field activists across generations across the region and the world, tradition and modernity.

The Department of Honam Studies is establishing a new academic, research, and education system that creates added value of the local economy and industry and revitalizes local employment based on overall and three-dimensional data and DBs about the region.

The Department of Honam Studies opens and provides various local culture majors to foster comprehensive knowledge and practical use of local dialects/languages and cultures, informatization of knowledge, and humanities knowledge.

Through this process, the Department of Honam Studies aims to cultivate regional studies experts with "humanistic knowledge," "cultural and artistic sensitivity," and "creative application" based on an integrated worldview that encompasses the region and the world while fusing tradition and modernity.

The Department of Honam Studies operates various subjects for regional studies research and integrated education that will lead the era of decentralization. As major subjects, Honam Studies Methodology, Honam Village History Research, Local cultural resources Research, Regional Identity Research, Regional Exchange History Research, Life and Play Seminar, Honam Nujeong and Wonlim Research Research, Honam Hyanggyo and Seowon Research, Local narrative research, Translocal cultural studies, Locality and Performance will be studied as major subjects. Such major areas can help a lot in career search as researchers and activists specializing in regional studies.

Currently, graduates and students who have completed their courses in Department of Honam Studies work in local government-related departments, related research institutes, regional studies research institutes, and local cultural centers.

■ Degree Requirements

Master's candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All students are required to pass foreign language exams and a qualifying exam. Prior to submitting a thesis, students must deliver more than one presentation at a Department seminar.

Students are also required to publish one paper in an academic journal.

All students are assigned a supervisor after their first semester based on research interests.

What Do You Study?

Honam Studies Research Methodology (3)
Local cultural resources (3)
Local history of everyday lives (3)
Local history of thoughts (3)
Honam Village History Research (3)
Honam Film Culture (3)
Honam Town castle Research (3)
Honam Traditional Craft Research (3)
Studies in festivals of Honam (3)
Local Culture Theory (3)
Regional Community Research (3)
Regional Identity Research (3)
Honam Street Research (3)
Honam Arts and Aesthetics (3)
Honam Market Research (3)
Honam Traditional Liquor Studies (3)
Honam Studies Special Lecture (3)
Mountain Mudeung Area Culture Research (3)
Life and Play Seminar (3)
Regional Cultural Content Research (3)
Regional Food Culture Research (3)
Regional cooperation and publicity (3)
Digital Honam Studies (3)
Local narrative research (3)
Local Creator Practical Workshop (3)
Honam Theater Arts Research (3)
Honam Modern University Studies (3)
Honam Farmers' Movement Research (3)
Honam Buddhist Studies (3)
Honam Silhak Research (3)
Honam Religious Studies (3)
Honam Student Movement Research (3)
Honam Ocean and Island Culture (3)
Youngsan River Area Culture Research (3)
Natural scenery and locality (3)
Imagination of Community and ecological (3)
Local main family culture (3)
Multiculturalism and community (3)
Local Department Welfare Seminar (3)
Local Coordinator Practical Workshop (3)
Village study (3)
Honam Modern People Research (3)
Honam Enterprise History Research (3)
Honam Nujeong and Wonlim Research (3)
Studies in Honam Seonbi culture (3)
Honam Women's Character Study (3)
Honam Language Studies (3)
Honam Studies Seminar (3)
Locality and media (3)
Local culture and global imaginations (3)
Regional and Gender Studies (3)
Regional Urban Research (3)
Regional Cultural Policy Research (3)
Translocal cultural studies (3)
Honam Hyanggyo and Seowon Research (3)
Locality and performance (3)
Special lecture on village research (3)
Regional Exchange History Research (3)
Local culture and public art (3)
Regional decentralization research (3)

Professors

- Kyung-Ho Kim, Ph.D.
  [Professor, Korean Philosophy
  kh-kim@jnu.ac.kr]
- Ki-Sung Kim, Ph.D.
  [Professor, Social Philosophy,
  philoseminar@jnu.ac.kr]
- Chang-Gyu Kim, Ph.D.
  [Professor, Chinese Modern History,
  kimcg@jnu.ac.kr]
- Myung-Jung Jeong, Ph.D.
  [Professor, Korean Literary Criticism,
  molecula@jnu.ac.kr]
- Tae-Sung Jo, Ph.D.
  [Professor, Korean Classical Literature,
  sijogasa@jnu.ac.kr]
- Yu-Jun Choi, Ph.D.
  [Professor, Cultural Studies & Musicology,
  hoggenug@jnu.ac.kr]
- Bong-Guk Kim, Ph.D.
  [Professor, Modern History of Korea,
  ssolbong@jnu.ac.kr]

■ Laboratories

- Library
- Seminar Room
- Student Lounge
- Institute of Honam Studies

Interdisciplinary Program of Asian Culture

Contact Information
Phone: +82-62-530-0907
URL: http://asia0907.co.kr/

■ Graduate Studies in the Interdisciplinary Program of Asian Culture

This program aims to promote the development of Asian research in Korea by establishing a comprehensive and systematic Asian research and Asian studies database covering humanities and social sciences such as languages, literature, folklore, history, politics, economics, and society.

■ Degree Requirements

- Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Students are required to earn at least 16 credits in Asian culture major. In addition, Candidates must pass the foreign language test and the comprehensive test to submit their graduation thesis.
- Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Students are required to earn at least 24 credits in Asian culture major. In addition, Candidates must pass the foreign language test and the comprehensive test to submit their graduation thesis.
- Except for early graduates, Candidates must complete at least four semesters.

■ What Do You Study?

Asian Traditional Culture
Asian Folk Culture
Asian Performing Arts
Asian oral culture
Asian modern culture
Asian civilization
Asian Cultural Heritage and Festival
Culture in Asia
Comparison of Culture between Korea and China
Culture in China region
Chinese mythology and primitive culture
Central Eurasian Culture
Cultural Research Method
Dramatic literature
Korean Folk Drama
Korean Literature and Festival
Pansori Literature
Performing Arts in China
Research guidance 1
Research training 1
Research training 2
Southeast Asian culture
Southwest Asian Culture
Special Lecture on Chinese Character Culture
Special Lecture on Chinese Contemporary Culture
Special Lecture on Korean Traditional Culture
Special Lecture on Korean Popular Culture
Special Lecture on Korean Folk Culture
Special Lecture on Japanese Living Culture
Special Lecture on Japanese Popular Culture
Special Lecture on Japanese Folk Culture
Special Lecture on Modern Japanese Culture
Special Lecture on Japanese Traditional Culture
Special Lecture on Culture in Japan
The original form of Chinese Cultural

Professors

- Yong-Ui Kim, Ph.D.
  [Professor, Japanese Culture, yukim@chonnam.ac.kr]
- Kyunghak Kim, Ph.D.
  [Professor, International Migration, Diaspora, Indian and South Asian Regional Studies, Religious Anthropology, khkim@jnu.ac.kr]
- Yujun Choi, Ph.D.
  [Professor, Local culture, hoggenug@jnu.ac.kr]
- Heekyung Lee, Ph.D.
  [Associate Professor, Chinese Literature and Contemporary Literature, bokdany@jnu.ac.kr]
- Jeong-hoon Han, Ph.D.
  [Assistant Professor, ganghon78@jnu.ac.kr]

Interdisciplinary Graduate Program of Community Studies in Humanities

Contact Information
Phone: +82-62-530-5218
Fax: +82-62-530-5219
URL: https://communitystudy.jnu.ac.kr/

■ What is the Interdisciplinary Graduate Program of Community Studies in Humanities?

The Interdisciplinary Graduate Program of Community Studies in Humanities was established in 2022 at Chonnam National University to strengthen community-based education and research rooted in humanistic values. This program operates in collaboration with Chonnam National University's Humanities Institute, along with the Departments of Philosophy, English Language and Literature, Korean Language and Literature, and Honam Studies.

The curriculum of the Interdisciplinary Graduate Program of Community Studies in Humanities is structured into four segments: Community Theory, Community Methodology, Community Organizational Theory, and Community Practical Studies. Community Theory explores interdisciplinary theories integrating fields like literature, history, and philosophy with family studies, women's studies, regional studies, peace studies, and ecology. Community Methodology focuses on concrete methodologies used in research and analysis. Community Organizational Theory studies humanistic principles and mechanisms for democratic and peaceful community structures. Community Practical Studies enhance on-site skills for restoring communal bonds and achieving a better quality of life.

■ Degree Requirements

- Master's course: Master's degree candidates must earn a minimum of 20 credits.
- Doctoral course: Ph.D. candidates must earn a minimum of 30 credits.
- Students are required to pass a qualifying examination and a foreign language examination as well as submit a thesis.

■ What Do You Study?

Studies in Humanities Community (3)
Studies in Korean Family History (3)
Family and Neighbor Relationship Practice (3)
Studies in Traditional Family Narratives (3)
Case Studies in the Local History (3)
Comparative Studies in Community of Yongnam and Honam (3)
Community Ritual Studies (3)
Community Figure Studies (3)
Feminism and Community (3)
Studies in Gender-Sensitive Communication (3)
The Politics of Minority Families and Civic Solidarity (3)
Media· Gender· Culture (3)
Caring Crisis and Community (3)
Introduction to Disability Studies (3)

Human rights ·Refugee· Migration (3)
Studies in Community Records (3)
Methodology in Community Research (3)
Body ·Affection· Community (3)
Community Organization Studies (3)
Theories & practices of Community and Urban Regeneration (3)
Theories and practices of Democratic Civic Education (3)
Peace Movement Theory
(Community Communication Ⅰ) (3)
Conflict Communication Theory
(Community Communication Ⅱ) (3)
Interspecies Community Studies (3)
Digital Citizenship and Solidarity (3)
Case Studies on Community Practice Ⅰ (3)
Case Studies on Community Practice Ⅱ(3)
Historical and Cultural Resource Curation (3)
Community Coordinator Workshop (3)
Global Crisis and Ecological Civilization (3)
Art· Community·Democracy(3)

■ Professors

- Mi-Ra Chung, Ph.D.
  [Professor, German Idealism and Social Philosophy, mirachung@hanmail.net]
- Yeonmin, Kim, PhD.
  [Professor, English Poetry, kogmc@jnu.ac.kr]
- Kyung-Sun Jo, Ph.D.
  [Professor, Korean Linguistics, puppetjks@jnu.ac.kr]
- Ki-Sung Kim, Ph.D.
  [Professor, Political Philosophy, philoseminar@jnu.ac.kr]
- Dohyang, Ryoo, Ph.D.
  [Professor, Social Philosophy and Aesthetics, essayistisch@naver.com]
- Euisoong, Han, Ph.D.
  [Professor, Korean Literature in Classical Chinese, lovehes@hanmail.net]
- Misun, Park, Ph.D.
  [Professor, Korean History, erudite-pms@hanmail.net]

Interdiscilpinary Course for Translating Korean Texts in Classical Chinese

Contact Information
Phone: +82-62-530-3149
URL: http://classics.jnu.ac.kr

■ Graduate Studies in History

The ‘Chinese classics translation cooperation course' is an interdisciplinary cooperation course to cultivate professionals who translate ancient East Asian classics recorded in Chinese characters. The educational goal of this course is to cultivate professionals who can study Korean and Honam studies through the wide use of classical materials and develop translation skills for Chinese classics, which form the basis of Korean culture.

■ Degree Requirements

Master’s candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All students are required to pass foreign language exams and a qualifying exam. Prior to submitting a thesis, students must deliver more than one presentation at a Department seminar.

The thesis can be replaced with a first translation containing academic text and annotations. In this case, it is permitted through a separate review process organized by the steering committee at the stage of submitting the thesis proposal.

■ What Do You Study?

Studies in Ancient Chinese Poems (3)
Classical Chinese Grammar (3)
Studies in Chinese Character (3)
Studies in Chinese verse literature (3)
Studies in Korean Ancient Documents (3)
Special lecture on Korean ancient documents (3)
Studies in Korean Epigraphy (3)
Studies in Korean Buddhism Thoughts (3)
Studies in the History Korean Historiography (3)
Studies in Local Korean History (3)
Topics in the History of Korean Historiography (3)
Tang-Song Prose (3)
Studies in Chinese Confucian Classics (3)
Studies in Chinese Character Borrowing and Notation (3)
Chinese Literature Practice (3)
Studies in Classical Korean Essays (3)
Studies in Classical Korean Literary Works (3)
Studies in the history of Korean Chinese Literature (3)
Studies in Chinese Buddhist Thought (3)
Studies in Korean Han-si (3)
Studies in Korean Academy of Classical Literature (3)
Reading Korean Classical Literature Works (3)
Korean Historical Materials Practice 1 (3)
Korean Historical Materials Practice 2 (3)
Studies in East Asian Buddhism (3)
Studies in Korean Confucianism in Yi-Dynasty (3)
Special Lecture on Taoist Philosophy (3)
Studies in Chinese Neo-Confucian (3)
Special Lecture on Confucian Philosophy (3)
Studies in Korean Neo-Confucian Studies (3)
Studies in Honam Classical Literature (3)
Studies in Chinese Kangchang Literature (3)

Studies in Chinese Classical Prose (3)
Studies in Chinese Classical novels (3)
Studies in Criticism of Classical Chinese Poetry (3)
Studies in Book of Basic Chinese Characters (3)
Studies in Marking Methodology (3)
Han-si Translation Practice (3)
Prose Translation Practice (3)
Studies in Honam Region Literature (3)
Cataloging and Bibliographical Introduction Writing (3)
Special Lecture on Reference Book (3)
Chinese Philosophers Optional Reading (3)
Reading Poetry (3)
Reading Confucian Classics (3)
Research Training 1 (3)
Research Training 2 (3)
Reading Korean Historical Texts (3)
Reading Korean Historical Texts (3)
Translation Stylistics (3)
Chinese Writing Style Practice (3)
History of Translation (3)
Caoshu Practice 1 (3)
Caoshu Practice 2 (3)
Studies in Zhuanshu (3)
Studies in Bibliography (3)
Korean History of Calligraphy (3)

■ Professors

• Yoon-Ho Cho, Ph.D.
[Professor, Chinese Buddhism, choyh@chonnam.ac.kr]
• Dae-Hyun Kim, Ph.D.
[Professor, Classic Korean Literature, kdh@jnu.ac.kr]
• Hae-Jin Shin, Ph.D.
[Professor, Classic Korean Literature, hjshin@jnu.ac.kr]
• Man-Jong Oh, Ph.D.
[Professor, Chinese Literature, oumj6011@jnu.ac.kr]
• Chun-Seok Jang, Ph.D.
[Professor, Chinese Literature, jangchun@jnu.ac.kr]
• Byoung-In Kim, Ph.D.
[Professor, Medieval Korean History, kimbi36@jnu.ac.kr]

■ Laboratories

- Library

Interdisciplinary Program in Teaching Korean as a Foreign Language

Contact Information
Phone: +82-62-530-3188
Fax: +82-62-530-3188
E-mail: kle0307@daum.net
URL: https://korlang.jnu.ac.kr/korlang/index.do

■ Graduate Studies in Korean Education

In order to foster Korean teachers and professors and develop Korean pedagogy, eight interdisciplinary cooperative courses (Korean language education, German language literature, French and French literature, English education, Japanese and Chinese literature) were established in 2011. If you complete the degree course according to the prescribed procedure, you can obtain a second-level Korean language teaching certificate, and after graduation, you can teach both Korean and Korean culture as a professor and teacher at domestic and foreign universities and other educational institutions.

■ Degree Requirements

Students must acquire 24 (M.A.) and 36 (Ph.D.) credit hours in major courses and 3 credit hours in thesis research to complete the course. All students must pass graduation qualification examinations (a foreign language exam and a comprehensive exam) before submitting the final copy of the thesis.

■ What Do You Study?

Multicultural Education
Contrastive Analysis in Linguistics
Studies in Conversation Analysis
Studies in Teaching Aids in Korean Language Education
Sociolinguistics of Korean
Theories of Language Teaching
A Study on the Type of Language
Research Training 1
Research Training 2
Second Language Acquisition
Applied Linguistics
Studies in Bilingual Education
Studies in Text Linguistics
Advanced Studies in Korean Orthography
Introduction to Korean Literature
Studies in Korean Literature Education
A Study on the History of Korean Literature
Advanced Studies in Korean Literature
Studies in Korean Literature
A Study on the Works of Korean Literature
Studies in Korean Culture Education
Advanced Studies in Korean Culture
Introduction to Korean Language Teaching
Curriculum Development of Korean Education
Advanced Studies in Theories of Korean Language Teaching
Teaching Practice of Korean as a Foreign Language
Methodologies on the Researches of Korean Education
Seminar In Korean Language Education
Theories of Korean Teaching Materials
Teaching of Korean Grammar
Advanced Studies in Teaching of Korean Grammar

Theories of Korean Grammar
Korean Pronunciation Pedagogy
Advanced Studies in Teaching of Korean Pronunciation
Korean Orthography
Theories of Korean Vocabulary Teaching
Advanced Studies in Teaching of Korean Vocabulary
Korean Lexicology
Studies in Korean Semantics
Teaching Receptive Skills of Korean
Studies in Korean Language Education Policy
Studies in Korean Syntax·Semantics
Korean Language Testing
Teaching Productive Skills of Korean
Studies in Pragmatics
Studies in Korean Pragmatics
Korean Traditional Culture

■ Professor

Korean Language and Literature

- Hwan-Mo Lim, Ph.D.
  [Professor, Modern Korean Literature, limhm@jnu.ac.kr]
- Dae-Hyun Kim, Ph.D.
  [Professor, Classic Korean Literature, kdh@jnu.ac.kr]
- Hyun-Mi Back, Ph.D.
  [Professor, Modern Korean Literature, hmback@jnu.ac.kr]
- Chae-Hyung Cho, Ph.D.
  [Professor, Korean Linguistics, chochaehyung @jnu.ac.kr]
- Seung-Joo Baek, Ph.D.
  [Professor, Korean Linguistics, righttodream@jnu.ac.kr]
- Kyung-Sun Jo, Ph.D.
  [Associate professor, Korean Linguistics, puppetjks@jnu.ac.kr]
- Jun-Hwan Yi, Ph.D.
  [Associate professor, Korean Linguistics, yujunhwan@naver.com]
- Jeong-hoon Han, Ph.D.
  [Assistant professor, The culture for Korean language and literature, ganghon78@jnu.ac.kr]
- Jun Choi, Ph.D.
  [Assistant professor, Korean Informatics, cjuni@jnu.ac.kr]

Korean Education

- Cheol No, Ph.D.
  [Professor, Modern Korean Poetry Education, nochul@jnu.ac.kr]
- Young-Hee Yang, Ph.D.
  [Professor, Middle Korean, Grammar chamnamu@jnu.ac.kr]
- Keun-Ho Kim, Ph.D.
  [Professor, Modern Korean Novel Education, critik7@jnu.ac.kr]
- Jin-Su Jo, Ph.D.
  [Associate Professor, Korean Modern Linguistics, Grammar Education, jojinsu1@jnu.ac.kr]
- Ji-Hyoung Cho, Ph.D.
  [Assistant Professor, Classic Korean Literature, kaisercho@jnu.ac.kr]
- Yoonmi Chae, Ph.D.
  [Assistant Professor, Classic Korean Novel, ymchae82@jnu.ac.kr]

English Language and Literature

- Seunghyun Baek, Ph.D
  [Professor, Applied Linguistics, sh3940@jnu.ac.kr]

English Education

- Chul Joo Uhm, Ph.D.
  [Professor, English Education, cjuhm@jnu.ac.kr]

Global Business

- Inhye Lee, Ph.D.
  [Assistant professor, leei@jnu.ac.kr]

Mathematics

Contact Information
Phone: +82-62-530-3330
Fax: +82-62-530-3349
URL: http://math.jnu.ac.kr

Graduate Studies in Mathematics

The graduate program in the Department of Mathematics offers advanced studies of quality instruction and research in pure and applied mathematics, which leads to master's and doctoral degrees in Mathematics. The Master's Program in Mathematics involves fundamental graduate coursework on various subjects and gives students opportunities to carry out research visions or plans. The Ph.D. program in Mathematics offers students wider and deeper theoretic training for various abstract materials and guides them to become professional mathematicians. Research fields of the Department include algebra, analysis, geometry, topology, applied mathematics, and mathematics education. In addition, the Department sponsors colloquia on the topics of various fields of mathematics for graduate students.

Degree Requirements

Upon completion of required courses in the first semester, students are expected to select a thesis advisor and begin research.

Master's degree candidates may take the qualifying exam upon earning 18 credits, and take the foreign language exam upon earning 9 credits.

Ph.D. candidates may take the qualifying exam upon earning 27 credits, and take the foreign language exam upon earning 9 credits.

Master's degree candidates are required to earn 24 credits from electives, 1 credit from a research course, and 9 credits from undergraduate mathematics courses for candidates where majors are not mathematics.

Ph.D. candidates are required to earn 36 credits from electives, 1 credit from a research course, and 9 credits from undergraduate mathematics courses for candidates whose majors are not mathematics.

What Do You Study?

Algebra Ⅰ (3)
Algebra Ⅱ (3)
Topics in Algebra I (3)
Topics in Algebra II (3)
Algebraic Number Theory (3)
Homological Algebra (3)
Commutative Algebra (3)
Rings and Module Theory (3)
Topics in Group Theory (3)
Representation Theory Ⅰ (3)
Representation Theory Ⅱ (3)
Special Topics in Algebra (3)
Algebraic Geometry I (3)
Algebraic Geometry II (3)

Differential Manifold I (3)
Differential Manifold II (3)
Riemannian Geometry I (3)
Riemannian Geometry II (3)
Advanced Differential Geometry I (3)
Advanced Differential Geometry II (3)
Complex Manifolds I (3)
Complex Manifolds II (3)
Lorentzian Geometry I (3)
Lorentzian Geometry II (3)
Modern Topology I (3)
Modern Topology II (3)
Algebraic Topology I (3)
Algebraic Topology Ⅱ (3)
Topological Groups (3)
Topics in Topology I (3)
Topics in Topology II (3)
Topics in Topology Ⅲ (3)
Differential Topology (3)
Topological Transformation Groups (3)
Functional Analysis I (3)
Functional Analysis II (3)
Harmonic Analysis (3)
Several Complex Variables I (3)
Several Complex Variables Ⅱ(3)
Operator Algebra I (3)
Operator Algebra II (3)
Applied Analysis I (3)
Applied Analysis II (3)
Nonlinear Analysis (3)
Real Analysis (3)
Complex Analysis (3)
Theory of Ordinary Differential Equations Ⅰ (3)
Theory of Ordinary Differential Equations II (3)
Partial Differential Equations I (3)
Partial Differential Equations II (3)
Topics in Numerical Analysis (3)
Applied Numerical Analysis (3)
Probability Theory I (3)
Probability Theory II (3)
Combinatorics (3)
Numerical Matrix Theory (3)
Numerical Analysis and Method (3)
Numerical Scientific Computation (3)
Parallel Computing (3)
Industrial Numerical Analysis (3)
Financial Engineering (3)
BigData Analysis and Method (3)
Mathematics Pedagogy (3)
Topics in History of Mathematics (3)
Algebra Teaching Materials (3)
Analysis Teaching Materials (3)
Geometry Teaching Materials (3)
Topics in Mathematical Education (3)

■ Professors

- Dong-Soo Kim, Ph.D.
  [Professor, Geometry, dosokim@jnu.ac.kr]
  (Submanifold Theory, Conformal Vector Fields, Einstein Spaces)
- Bok-Hee Im, Ph.D.
  [Professor, Algebra, bim@jnu.ac.kr]
  (Group Theory and their Generalizations, Non-associative Rings and Algebras Geometry, Cryptology)
- Hyeong-Kwan Ju, Ph.D.
  [Professor, Combinatorial Mathematics, hkju@jnu.ac.kr]
  (Dynamical Systems)
- Jeong-Ook Kim, Ph.D.
  [Professor, Applied Mathematics, jkim@jnu.ac.kr]
  (Systems Theory, Operator Theory)
- Min-Kyu Kwak, Ph.D.
  [Professor, Analysis, mkkwak@jnu.ac.kr]
  (Partial Differential Equations, Ordinary Differential Equations, Dynamical Systems)
- Young-Bok Chung, Ph.D.
  [Professor, Analysis, ybchung@jnu.ac.kr]

(One or Several Variable Complex Analysis)
- Jong-Taek Cho, Ph.D.
  [Professor, Geometry, jtcho@jnu.ac.kr]
  (Riemannian Geometry related with Contact Structures or Complex Structures, Pseudo-Hermitian Geometry, CR-Geometry)
- Byeong-Chun Shin, Ph.D.
  [Professor, Applied Mathematics, bcshin@jnu.ac.kr] (Numerical Analysis)
- Young-Joo Lee, Ph.D.
  [Professor, Analysis, leeyj@jnu.ac.kr]
  (Several Variable Complex Analysis)
- Dae-Heui Park, Ph.D.
  [Professor, Topology, dhpark3331@jnu.ac.kr]
  (Algebraic Topology, Semi-Algebraic Topology)
- Do-Yong Kwon, Ph.D.
  [Professor, Number Theory, doyong@jnu.ac.kr]
- Hong-Sung Jin, Ph.D.
  [Professor, Applied Mathematics, hjin@jnu.ac.kr]
  (Uniform Superconvergence Wavelets)
- Sang-Wook Kim, Ph.D.
  [Associate Professor, Algebra, swkim.math@jnu.ac.kr]
- Hyun-Cheul Lim, Ph.D.
  [Assistant Professor, Financial Mathematics, limhc@jnu.ac.kr]
- Ji-Hoon Lee, Ph.D.
  [Assistant Professor, Analysis, jihoon@jnu.ac.kr]
  (Partial Differential Equations and Dynamical Systems)

■ Laboratories

Algebra Lab

Research is carried out on prime factorization, a solution of various equations and symmetry.

Analysis Lab

Research is conducted on functions and their differentiation or integration. Many laws of nature are described by differential equations.

Geometry Lab

Research is conducted on the curve, surface, and structures of space.

Topology Lab

Research is conducted on invariability under continuous deformations, such as spheres, tubes, and Moebius strips.

Applied Mathematics Lab

Research is conducted on cryptography, coding theory, computational mathematics, numerical analysis, communications, information mathematics, financial mathematics, and bio-mathematics.

Statistics

Contact Information
Phone: +82-62-530-3440
Fax: +82-62-530-3449
E-mail: stat.jnu@gmail.com
URL: http://stat.jnu.ac.kr

Graduate Studies in Statistics

The Department of Statistics offers advanced graduate programs leading to master's and doctoral degrees in Statistics. The goal of our graduate programs is to educate students to have an in-depth knowledge of Statistics. Our graduate program balances theory and applications, including solid mathematical training, modeling, data analysis, and computation. Electives are regularly offered in active areas. Recent offerings have included Bayesian data analysis, bio-informatics, categorical data analysis, longitudinal and spatial data modeling, sequential analysis, and survival analysis. The Master's Program in Statistics prepares students for professional opportunities in research areas and in the IT industry. The Ph.D. program in Statistics prepares students for careers in a wide spectrum of topics in data and statistics. Ph.D. candidates have opportunities for rigorous training in theoretical statistics as well as applied research topics.

Degree Requirements

All students are assigned a supervisor to oversee their work.

Master's candidates are required to earn 24 credits and develop a thesis. Students in this program must pass a written exam in statistics and complete the following courses: Theory of Statistical Inference, Regression Analysis Theory, and Multivariate Statistical Analysis.

Three committee members including the advisor are nominated by the Department to approve the thesis (approval must be given by at least two-thirds of the committee).

Ph.D. candidates are required to earn 36 credits and develop a thesis. Students in this program must pass a written exam in statistics. This exam consists of three parts: 1) theoretical statistics (one of Theory of Statistical Inference and Large Sampling Theory), including probability and mathematical statistics; 2) applied statistics (one of Linear Statistical Models, Experimental Design Theory, and Advanced Statistical Quality Control), including statistical design and data analysis; and 3) a major field of research (one of Topics in Statistical Computing, Survey Method Theory, Time Series Analysis, The Analysis of Cross-classified Categorical Data).

Five committee members including the advisor are nominated by the Department to approve the thesis (approval must be given by at least four-fifths of the committee).

■ What Do You Study?

General Course

Research for Master's or Doctoral Degree

Master's Program

Multivariate Statistical Analysis
Regression Analysis
Theory of Statistical Inference 1
Theory of Statistical Inference 2

Ph.D. Program

Introduction to Advanced Statistics

Electives

Experimental Design
Linear Statistical Models
Topics in Sampling Theory
The Analysis of Cross-classified Categorical Data
Topics in Stochastic Process
Large Sampling Theory
Advanced Statistical Quality Control
Non-parasitic Statistics
Topics in Statistical Computing
Advanced Statistics Seminar
Topics in Time Series Analysis
Bayesian Statistics
Survey Method
Statistical Pattern Recognition
Survival Analysis
Intermediate Statistical Data Analysis
Advanced Statistical Data Analysis
Statistical Data Mining
Contents Development for Web-based Education of Statistics
Reliability Theory
Statistical Image Analysis
Advanced Statistical Programming Language
Monte Carlo Method and Statistical Computation
Advanced Categorical Data Analysis
Advanced Statistical Methods in Biometry
Statistical Methods for Geo-sciences
Advanced Statistical Consulting and Practice

■ Professors

- Young-Sook Son, Ph.D.
  [Professor, ysson@jnu.ac.kr]
  (Time Series Analysis, Data Mining, Bayesian Statistical Inference)
- Jeong-Soo Park, Ph.D.
  [Professor, jspark@jnu.ac.kr]
  (Design and Analysis of Computer Experiments (Simulation), Meteorological Statistics, Educational Statistics, Statistical Computing)
- Jang-Sun Baek, Ph.D.
  [Professor, jbaek@jnu.ac.kr]
  (Nonparametric Function Estimation, Multivariate Analysis, Bioinformatics, Pattern Recognition)
- Il-Su Choi, Ph.D.
  [Professor, ichoi@jnu.ac.kr]
  (Bayesian Statistics(MCMC), Mathematical Biology, Environmental Ecology Statistics)
- Myung-Whan Na, Ph.D.
  [Professor, nmh@jnu.ac.kr]
  (Reliability Theory, Statistical Quality Control, Probabilistic Finite Element Method, Probabilistic Safety Assessment)
- Eun-Sik Park, Ph.D.
  [Professor, espark02@jnu.ac.kr]
  (Longitudinal/Categorical Data Analysis, Statistical Methods in Medical Research,

Clinical Trials, Bioinformatics)
- Min-Soo Kim, Ph.D.
  [Professor, kimms@jnu.ac.kr]
  (Multivariate Analysis, Image Partition or Searching, Financial Statistics)
- Jae-sik Jeong, Ph.D.
  [Associate Professor, jjs3098@jnu.ac.kr]
  (Bioinformatics (Metabolomics, Genomics), Biostatistics (clinical trials), Bayesian analysis)
- Bong-Gyun Ko, Ph.D.
  [Assistant Professor, bonggyun.ko@jnu.ac.kr]
  (interpretative public intelligence)
- Jeong-Gyu Huh, Ph.D.
  [Assistant Professor, huhjeonggyu@jnu.ac.kr]
  (Machine-learning-based financial engineering)
- Kwangmin Lee, Ph.D.
  [Assistant Professor, klee564@jnu.ac.kr]
  (Baysian Statistics)

■ Laboratories

Study Rooms
Pattern Recognition and Image Processing Lab
Quality Control and Reliability Lab
Applied Statistics Lab
Bayesian Statistics Lab
Experimental Design Lab
Discrimination Analysis Lab

The Statistics Library is filled numerous statistics and computer science books and relevant outstanding papers.

The Computing Lab houses computers with programs such as SAS, SPSS, S-PLUS, Minitab, and MATLAB.

Physics

Contact Information
Phone: +82-62-530-3350
Fax: +82-62-530-3369
URL: physics.jnu.ac.kr/

■ Graduate Studies in Physics

Physics is the most basic science to understand how and why things in the universe work, to discover the fundamental laws of nature. The graduate program in Physics aims to research all natural phenomena and laws of nature, to develop wide applications in other natural sciences, engineering, medical science, agricultural science, and social science, and to source all high technologies.

- The Department of Physics offers programs of study for B.S., M.S., and Ph.D. degrees. The Department is composed of 18 faculty members and 24 graduate students. Our research ranges from fundamental topics such as elementary particle physics and cosmology to applied areas such as material physics and optics. The graduate curriculum in the department of physics provides the background and training required to conduct high quality worldwide research.

- Research areas: Optics, Condensed Matter Physics, High Energy Physics

■ Degree Requirements

The graduate program in Physics focuses on the fields of condensed matter physics, optics, and high energy physics in both education and research. After completing the required courses in classical mechanics, electromagnetism, quantum mechanics, and statistical mechanics, students are expected to choose a thesis advisor to start their own research and thesis program.

Master's degree candidates are required to earn 9 credits from required courses(Quantum Mechanics I, Classical Electromagnetism I) and choose 1 between Classical Mechanics I and Statistical Mechanics I), 9 credits from electives. 6 credits can be earned from non-physics courses.

Ph.D. candidates are required to earn 6 credits from required courses (Quantum Mechanics II and Classical Electromagnetism II), 30 credits from electives and 24 credits from non-physics courses.

■ What Do You Study?

Classical Mechanics I (3)
Classical Mechanics II (3)
Classical Electromagnetism I (3)
Classical Electromagnetism II (3)
Quantum Mechanics I (3)
Quantum Mechanics II (3)
Statistical Mechanics I (3)
Statistical Mechanics II (3)
Mathematical Physics I (3)
Mathematical Physics II (3)
Spectroscopy (3)
Research for Master's or Doctoral Degree I (1)

Integrated Optics I (3)
Optical Design (3)
Diffraction Theory of Optical Imagine (3)
Many Body Physics (3)
Topics on Equilibrium Statistical Physics I (3)
Topics on Equilibrium Statistical Physics II (3)
Topics on Non-equilibrium Statistical Physics Ⅰ (3)
Topics on Non-equilibrium Statistical Physics Ⅱ (3)
Quantum Field Theory Ⅰ (3)
Quantum Field Theory Ⅱ (3)
High Energy Physics Ⅰ (3)
High Energy Physics Ⅱ (3)
Topics on High Energy Physics Ⅰ (3)
Topics on High Energy Physics Ⅱ (3)
Research for Master's or Doctoral Degree Ⅱ (1)
Solid State Physics Ⅰ (3)
Solid State Physics Ⅱ (3)
Topics on Solid State Physics Ⅰ (3)
Topics on Solid State Physics Ⅱ (3)
Solid State Physics Laboratory Ⅰ (3)
Solid State Physics Laboratory Ⅱ (3)
Quantum Theory of Solids Ⅰ (3)
Quantum Theory of Solids Ⅱ (3)
Integrated Optics Ⅰ (3)
Cosmic Ray Physics (3)
The Theory of Relativity (3)
Nuclear Physics Ⅰ (3)
Nuclear Physics Ⅱ (3)
Advanced Nuclear Physics Ⅰ (3)
Advanced Nuclear Physics Ⅱ (3)
Nuclear Structure Theory (3)
High Energy Physics Laboratory Ⅰ (3)
High Energy Physics Laboratory Ⅱ (3)
Applied Optics Ⅰ (3)
Applied Optics Ⅱ (3)
Advanced Topics on Optics Ⅰ (3)
Advanced Topics on Optics Ⅱ (3)
Quantum Optics Ⅰ (3)
Quantum Optics Ⅱ (3)
Applied Optics Experiments Ⅰ (3)
Applied Optics Experiments Ⅱ(3)
Laser Physics Ⅰ (3)
Laser Physics Ⅱ (3)
Special Topics in Advanced Physics Ⅰ (3)
Special Topics in Advanced Physics Ⅱ (3)
Special Topics in Advanced Physics Ⅲ (3)
Special Topics in Advanced Physics Ⅳ (3)
Special Topics in Advanced Physics Ⅴ (3)
Special Topics in Advanced Physics Ⅵ (3)
Physics of Magnetic Materials (3)
Mesoscopic Physics (3)
Introduction to Quantum Information Science (3)

■ Professors

- Chang Sub Kim, Ph.D.
  [Professor, Condensed Matter Theory, cskim@jnu.ac.kr]
- Sun Hyun Youn, Ph.D.
  [Professor, Quantum Optics and Nonlinear Optics Experiments, sunyoun@jnu.ac.kr]
- En Jin Cho, Ph.D.
  [Professor, Condensed Matter Experiments, ejcho@jnu.ac.kr]
- Ki Cheon Kang, Ph.D.
  [Professor, Mesoscopic Physics, kckang@jnu.ac.kr]
- Sang Wan Ryu, Ph.D.
  [Professor, Nano-Photonics, sangwan@jnu.ac.kr]
- In Kag Hwang, Ph.D
  [Professor, Nano Optics, ikhwang@jnu.ac.kr]
- Han Jin Noh, Ph.D.
  [Professor, Condensed Matter Experiments,

ffnhj@jnu.ac.kr]

- Kyung Kwang Joo, Ph.D.
  [Professor, High Energy Experiments, kkjoo@jnu.ac.kr]
- Jae Sik Lee, Ph.D.
  [Professor, Elementary Particle Physics Theory, jslee@jnu.ac.kr]
- Ha Sul Kim, Ph.D.
  [Professor, Optical Science & III-V Semiconductor, hydenkim@jnu.ac.kr]
- Joong Wook Lee, Ph.D.
  [Professor, Terahertz Photonics & Plasmonics, leejujc@jnu.ac.kr]
- Dong ho Moon, Ph.D.
  [Associate Professor, High Energy Experiments, dhmoon@jnu.ac.kr]
- Geol Moon, Ph.D.
  [Associate Professor, Atom Optics Experiments, cnuapi@jnu.ac.kr]
- SoongGeun Je, Ph.D.
  [Assistant Professor, Condensed Matter Experiments, gje@jnu.ac.kr]
- Ara Go, Ph.D.
  [Assistant Professor, Condensed Matter Theory/ Computational Physics, arago@jnu.ac.kr]
- Chan Beom Park, Ph.D.
  [Assistant Professor, Condensed Particle Physics Theory cbpark@jnu.ac.kr]

■ Laboratories

Optics Lab

Research is conducted by Sun Hyun Youn, Heung Ryoul Noh, In Kag Hwang and Joong Wook Lee. Areas of interest include:

- Applied Optics
- Fiber Optics
- Integrated Optics
- Quantum Optics
- Atom Optics
- Terahertz Photonics & Plasmonics

Condensed Matter Physics

Research is conducted by En Jin Cho, Sang Wan Ryu, Han Jin Noh, Ha Sul Kim, Chang Sub Kim, Ki Cheon Kang, SoongGeun Je and Ara Go. Research is carried out in the fundamentals of condensed matter physics, semiconductor physics, IT and nanotechnology. Areas of interest include:

- Solid State Physics
- Semiconductor Physics
- Applied Physics
- Nano Physics
- Optical Science & III-V Semiconductor

High Energy Physics Lab

Research in nuclear and particle physics is conducted by Kyung Kwang Joo, Dong ho Moon and Jae Sik Lee. Research interests include the study of the ultimate constituent of matter.

Chemistry

Contact Information
Tel: +82-62-530-3370
Fax: +82-62-530-3389
URL: http://chem.jnu.ac.kr/

■ Graduate Studies in Chemistry

Chemists analyze, synthesize, quantitate, and design materials. They relish creating models and theories that can rationalize what happens in the laboratory. They enjoy discussing experiments and ideas with each other as well as with physicists, biologists, computer scientists, and with experts in electronics and material science. The study of chemistry prepares individuals for obvious real-life jobs in the chemical industry, education, and other related fields. More fundamentally, the department helps students to develop the ability to solve problems and to think critically. These latter skills will be more valuable to students than any specific facts, theories, and techniques they will master in the classroom. The Department is committed to providing students with a first-class education.

■ Degree Requirements

All students are assigned a research advisor and a research group. The first year is spent developing a research idea, while later years are spent conducting lab research and composing a Ph.D. thesis.

Most students earn 36 credits during their first 2 years. The Department's committee selects courses necessary for students to meet academic requirements.

A qualifying exam is required after successful completion of coursework. All students are required to prepare and present a research plan, including an outline of a proposal and identification of research direction. Upon completion of course requirements and passing required exams and submitting a research plan, students will become eligible for Ph.D. candidacy.

■ What Do You Study?

Special Research in Analytical Chemistry II and Seminar (3)
Molecular Orbital Theory (3)
Physiological Chemistry (3)
Special Topics in Biochemistry 1 (3)
Special Topics in Biochemistry 2 (3)
Quantum Chemistry (3)
Organometallic Chemistry (3)
Organic Reaction Mechanism (3)
Organic Synthesis (3)
Special Topics in Organic Chemistry I (3)
Special Topics in Organic Chemistry II (3)
Special Research in Organic Chemistry I and Seminar (3)
Special Research in Organic Chemistry II and Seminar (3)
Electrochemistry (3)
Transition Metal Chemistry (3)

Stereochemistry (3)
Electro-analytical Chemistry (3)
Electronics (3)
Liquid Theory (3)
Natural Product Chemistry (3)
Catalytic Chemistry (3)
Statistical Thermodynamics (3)
Nucleic Acid Chemistry (3)
Heterocyclic Chemistry (3)
Chemical Binding Theory (3)
Chemical Kinetics (3)
Special Topics in Environmental Analysis (3)
Enzyme Chemistry (3)
Organo Transition Metallic Chemistry (3)
Bioinformatics (3)
X-ray Crystallography (3)
Chemistry of Nanomaterials (3)
Supramolecular Chemistry (3)

■ Professors

- Hyoung-Ryun Park, Ph.D.
  [Professor, Inorganic Chemistry, hrpark@jnu.ac.kr]
- Jae-Nyoung Kim, Ph.D.
  [Professor, Organic Chemistry, kimjn@jnu.ac.kr]
- Jong-Hoon Oh, Ph.D.
  [Professor, Organic Chemistry, jnoh@jnu.ac.kr]
- Che-Hun Jung, Ph.D.
  [Professor, Biochemistry, jungch@jnu.ac.kr]
- Sun-Woo Lee, Ph.D.
  [Professor, Organic Chemistry, sunwoo@jnu.ac.kr]
- Jeong-Sun Kim, Ph.D.
  [Professor, Biochemistry, jsunkim@jnu.ac.kr]
- Hyun-Dam Jeong, Ph.D.
  [Professor, Physical Chemistry, hdjeong@jnu.ac.kr]
- Hyun-Chul Choi, Ph.D.
  [Professor, Analytical Chemistry, chc12@jnu.ac.kr]
- Jun-seong Lee, Ph.D.
  [Professor, Inorganic Chemistry, leespy@jnu.ac.kr]
- Cheol-Won Lee, Ph.D.
  [Professor, Biochemistry, cwlee@jnu.ac.kr]
- Sung Cho, Ph.D.
  [Professor, Physical Chemistry, scho@jnu.ac.kr]
- Jimin Kim, Ph.D.
  [Associate Professor, Organic Chemistry, jiminkim@jnu.ac.kr]
- Kyungsu Na, Ph.D.
  [Professor, Physical Chemistry, kyungsu_na@jnu.ac.kr]
- Jeongsuk Seo, Ph.D.
  [Associate Professor, Analytical Chemistry, j_seo@jnu.ac.kr]
- Changwoo Kim. Ph.D.
  [Assistant Professor, Physical Chemistry, cwkim66@jnu.ac.kr]
- Jacopo Tessarolo, Ph.D.
  [Assistant Professor, Inorganic Chemistry, jacopo@jnu.ac.kr]

■ Laboratories

Faculty Members by Research Area

- **Physical Chemistry**
  - Hyun-Dam Jeong
  - Sung Cho
  - Kyungsu Na
  - Changwoo Kim

- **Analytical Chemistry**
  - Hyun-Chul Choi
  - Jeongsuk Seo

- **Inorganic Chemistry**
  - Hyoung-Ryun Park
  - Jun-seong Lee
  - JacopoTessarolo

- **Organic Chemistry**
  - Jae Nyoung Kim
  - Jong-hoon Oh
  - Sun-woo Lee
  - Jimin Kim

- **Biochemistry**
  - Che-Hoon Jung
  - Jeong-Sun Kim
  - Cheol-Won Lee

■ Research Instruments Lab

Advanced instrumentation is an essential com- nent of Departmental research. The Department and individual research groups collectively maintain research instruments (hardware and software) that are constantly being updated.

Major Department equipment available to research faculty members and students include the following: NMR 500MHz, NMR 300MHz, Nd: YAG Laser, LC (HPLC), GC, IR, TGA, UVo Vis - computational resources Linux PC Clusters (8nodes) - running Gaussian 98, NWChem.
Linux PC Severs - running Gaussian 98, NWChem. Various Workstations (Alpha and SGI machines) - running Gaussian 98, NWChem. - University research facilities and Research Center Chonnam National University sponsors a large number of specialized centers of research and campus-wide research facilities. Two centers that many members of the Facilities Department frequently use are the Laboratories Building Equipment Management Center and Korea Basic Science Institute.

Department of Geological and Environmental Sciences

Contact Information
Phone: +82-62-530-3450
Fax: +82-62-530-3459
URL: http://geology.jnu.ac.kr

Graduate Studies in Geological and Environmental Sciences

The department of geological and environmental sciences provides an outstanding environment for studies of the Earth and various environmental problems. The department seeks to understand the fundamental processes defining the origin, evolution, and current state of Earth systems and to use this understanding to predict future states and to solve environmental problems. The Department is composed of three major research areas as follows:

1) Pure/Basic Geology: conducting broad investigations on rocks, minerals, and fossils of past and present geological environments and predicting the future.

2) Applied Geology: geological and seismological studies of practical issues related with the geological stability of a critical structure, such as a nuclear power plant or nuclear waste disposal.

3) Environmental Geology: practical application of the principles of geology in solving environmental problems, such as soil and ground water contaminations and their remediation.

The specific research encompasses igneous/metamorphic petrology, economic mineral deposits, paleontology, sedimentary environments, environmental hydrogeology, biogeochemistry, geophysics and geodynamics. The Department's programs include interdisciplinary research and teaching that bring the unique perspective of geology to scientific problems at diverse spatial and temporal scales. The Department currently has 8 faculty members.

Currently, the Department has 24 graduate students; 162 undergraduate students are majoring in geology.

The Department's programs offer courses leading to Bachelor's, Master's, and Doctoral degrees in geology. The Department's faculty members, graduate students, and undergraduate students are involved in field, laboratory, experimental, and modeling studies to solve geological and environmental problems. The graduate programs are designed to train geology students beyond the bachelor's degree for professional employment or for advanced research. To be admitted into the graduate program, applicants must have a bachelor's degree in geology or an applied science, as determined by the department's graduate committee.

Degree Requirements

Master's degree candidates are required to earn 24 credits in addition to 1 research credit. Ph.D. candidates are required to earn an additional 36 credits plus 1 research credit.

■ What Do You Study?

Advanced Lecture of Earth Environmental Science I (3)
Advanced Lecture of Earth Environmental Science II (3)
Advanced Metamorphic Petrology (3)
Advanced Field Geology (3)
Advanced Geology (3)
Geological Survey and Study (3)
Materials Science under Extreme Conditions (3)
Circum Pacific Geology (3)
Study of Mineral Analysis (3)
Advanced Mineral Exploration (3)
Advanced Structural Geology (3)
Hydrothermal Ore Genesis (3)
Advance of Soil Mineralogy (3)
Digital seismic signal analysis (3)
Advanced Geophysics (3)
Advanced Seismology (3)
Practice on Seismology 1 (3)
Practice on Seismology 2 (3)
Geometry and Mechanics of Thrust faults (3)
Medical Mineralogy (3)
Special Lectures on Seismology (3)
Ichnology (3)
Plate Tectonics (3)
Advanced Vertebrate Paleontology (3)
Seminar in Tidal-Flat Sedimentology (3)
Special Topics on Geophysical Fluid Dynamics (3)
Advanced Paleontology (3)
Seminar on Paleoenvironment (3)
Advanced Micropaleontology (3)
Biostratigraphy (3)
Earth History and Evolution (3)
Sediment Particle Size Analysis Seminar (3)
Carbonate Sedimentology (3)
Marine Geology of the Korean Seas
Coastal Zone Management (3)
Sequence Stratigraphy (3)
Clastic Sedimentology (3)
Coastal Geology (3)
Paleoclimatology and Paleoceanography (3)
Seminar in Earth Environmental Science I (3)
Seminar in Earth Environmental Science II (3)
Vertebrate Paleontology (3)
Geotectonics (3)
Precambrian Geology (3)
Advanced Mineralogical Petrology (3)
Petrogenesis of the Metamorphic Rocks (3)
Advanced Hydrogeology (3)
Advanced Contaminant Hydrogeology (3)
Groundwater and Transport Modeling (3)
Fractured Rock Hydrogeology (3)
Aquifer Hydraulics (3)
Groundwater Remediation (3)
Numerical Analysis and Programing for Hydrogeology (3)
Geo-microbiology (3)
Environmental Mineralogy (3)
Advanced Environmental Geology (3)
Advanced Environmental Soil Science (3)
Environmental Geo-microbiology (3)
Seismological Data Processing (3)
Geodynamics (3)
Advanced Geodynamics(3)
Deodynamic Modeling (3)
Subduction Zone Geology (3)
Mantle Geology (3)
Tectonics (3)

■ Professors

• Min Huh, Ph.D.
[Professor, Paleontology, minhuh@jnu.ac.kr]
• In-Wook Yeo, Ph.D.
[Professor, Environmental Hydrogeology, iwyeo@jnu.ac.kr]
• Yul Roh, Ph.D.
[Professor, Environmental Soil Science &

and Geomicrobiology, rohy@jnu.ac.kr]
- Dong-Hoon Sheen, Ph.D. [Professor, Seismology & geophysics, dhsheen@jnu.ac.kr]
- Donghoon Seoung, PhD. [Associate Professor, Earth Materials Science, dseoung@jnu.ac.kr]
- Tae Soo Chang, Ph.D. [Professor, Coastal Geology/Sedimentology, taesoo20@jnu.ac.kr]
- Yi-rang Jang, Ph.D. [Assistant Professor, Structural Geology/ Tectonics, yirang@jnu.ac.kr]
- Byung-choon Lee, Ph.D. [Assistant Professor, Petrology, leebc@jnu.ac.kr]

■ Laboratories

Paleontology Lab

(Advisor: Prof. Min Huh)

Paleontology is the study of prehistoric animals and plants which remain or other indications that are found in sedimentary rocks. It is the branch of geology which aims to interpret the record of events in the earth's history, past geography, paleoclimate and paleoenvironments. The Paleontology Lab is currently interested in the research on dinosaur and pterobrur fossils including footprints, eggs, bones from the Cretaceous deposits, and the ostracoda.

■ Research Interests and Current Projects:
- Paleontologic study on the life of past geological times
- Paleoenvironments, paleogeography, paleoclimatology, paleoecology
- Fossil excavation and its scientific preparation and conservation
- Geological investigation of buried cultural properties

Environmental Hydrogeology

(Advisor: Prof. In-Wook Yeo)

Hydrogeology deals with the occurrence, movement, and quality of water in porous media. The Environmental Hydrogeology group is involved in a diverse spectrum of research in hydrogeology, with a strong program in fractured rock hydrogeology. In their research, faculty members and students in the Hydrogeology group use theoretical analyses, groundwater flow and contaminant transport modelings, hydrogeological field data analyses, and laboratory experiments.

■ Research Interests and Current Projects:
- Groundwater flow analysis in rock fractures and its modeling
- Discontinuity network analysis and its 3-D realization
- DNAPL migration and remediation in rock fractures
- Bacterial transport in rock fractures
- Reactive transport modeling of heavy metals and NAPLs

Environmental Soil Science & Geomicrobioloogy Lab

(Adviser: Prof. Yul Roh)

Biogeochemistry is the study of biological controls on the chemistry of the Earth's environment and mineral formation. Biogeochemistry has been vital to the study of the Earth, and has resulted in the findings of many environmental/industrial applications such as the remediation of contaminated soil and groundwater and the microbially-induced synthesis of nanomaterials.

■ Research Interests and Current Projects:
- Characterization and remediation of contaminated soils
- Naturally accelerated bioremediation of contaminated soils and groundwater

- Microbially induced synthesis of nanoo materials
- Assessment and characterization of nuclear power plants and nuclear waste disposal sites

Seismology & Geophysics Lab

(Advisor: Prof. Dong-Hoon Sheen)

Geophysics is the study of the Earth using quantitative physical methods. This group focuses especially on seismology, which is useful to study the structure of the Earth and also to reduce potential earthquake hazards. Recently, microseism, seismic source parameter estimation and earthquake early warning are main research topics.

■ Research Interests and Current Projects:

- Generation and propagation characteristics of microseism
- Seismic source parameter estimation
- Development of various magnitude relationships for earthquakes around South Korea
- Development of earthquake early warning system in South Korea

Earth Materials Science Lab.

(Advisor: Prof. Donghoon Seoung)

The Earth Materials Science Laboratory is a research laboratory that focuses on the role of Earth materials in (1) mineralogical processes on the crust, mantle, and deep inside core and, (2) processing of these materials to derive novel use and functionality, and (3) crystallographic access to atomic scale changes under various thermodynamic conditions.

■ Research Interests and Current Projects:

- Mineralogical investigation under extreme conditions (High-pressures and temperatures) using Diamond-anvil-cells (DACs) via synchrotron radiation lightsources and laser-induced shock waves
- Crystallographic access to changes of the materials in atomic scale ranges
- Fixation and sequestration of CO2, H2, and radioactive nuclides using microporous materials (MOFs, ZIFs, COFs, and Zeolites)
- Development of 2D/3D functional materials (interstratified/porous materials)

Coastal Geology/Sedimentology Lab.

(Advisor: Prof. Tae Soo Chang)

Coastal geology and sedimentology laboratory deals with sediments and their transport, and geomorphology and stratigraphic evolution of coastal landforms on the shore and coastal shelves. From the sediments and sedimentary records, we aims to understand the changes in sea levels and environmental changes driven by various physical forcings. For the purposes, we use multi-proxies such as sedimentological, mineralogical, and geochemical tools.

■ Research Interests and Current Projects:

- Coastal processes and geomorphology of beach-coastal dune systems along the macrotidal west coast of Korea
- Quaternary stratigraphic evolution of tidal flats, deltas and barrier islands system
- Shallow-marine tidal sand ridges and its evolution
- Late Quaternary sea-level studies around the Korean Peninsula
- Coastal erosion and management studies
- Gravel beach studies in the macrotidal settings
- Marine geology of Ieodo submerged volcanoes

Structural geology & Tectonics Lab.

(Advisor: Prof. Yirang Jang)

Structural geology is the study of the architecture of rocks from micro- to macro-scales resulting from deformation, and Tectonics is the same as Structural geology but deal with very large-scale structures. This research field is a fundamental subject in geological sciences to understanding Earth structures based on their structural geometry, kinematics, and mechanics.

■ Research Interests and Current Projects:

Field-based structural studies for deciphering the tectonic evolution of fold-thrust belts in Korea as well as abroad.
Geometric and Kinematic studies using various modern structural techniques for inferring the 3-D evolution of fold-thrust belts.
Applied Structural geology in Petroleum geoscience and Geological/Civil Engineering, etc.

Petrology Lab.

(Advisor: Prof. Byung-choon Lee)

The Department of Geological and Environmental Sciences conducts research on the origin, formation, and timing of rocks (metamorphic and igneous) based on the field, texture, and composition of rocks that make up the Earth's crust. On a macro scale, it studies the tectonic evolution of East Asia, including the Korean Peninsula

■ Research on metamorphism and igneous activities worldwide
- Identification of conditions (pressure, temperature, composition) for the formation of metamorphic rocks and tracking of reactions and metamorphic paths over time
- Research on the origin and evolution of igneous rocks using the composition and petrochemical data of minerals and rock chemistry

■ Research on the tectonic evolution of Northeast Asia through a comparison of geological features between the Korean Peninsula, China, and Japan

■ Research on the extension of the Chinese continent collision belt formed in the Triassic to the Korean Peninsula

■ Identification of unrecognized tectonic movements within the Korean Peninsula

■ Research on the formation and division mechanisms of the orogen subduction zone

Oceanography

Contact Information
Phone: +82-62-530-3460
Fax: +82-62-530-3469
URL: http://oceanography.jnu.ac.kr/

■ Graduate Studies in Oceanography

The Department of Oceanography has 9 full-time faculty members and several part-time lecturers engaged in teaching and research at the graduate and undergraduate levels. The Department conducts interdisciplinary research in coastal marine environments, maintains advanced laboratories, seeks public and private research funds, and recruits and retains qualified faculty, staff, and students. It provides an effective learning environment for students who are interested in careers in marine science or related fields, and also for students who are interested in science-based management of contaminated and human-impacted coastal environments. Faculty research interests range from the ecology of phytoplankton, macro-alga zooplankton and nekton to the biogeochemical cycle of elements and numerical modeling of coastal processes. Graduates from the Department of Oceanography hold many faculty positions in universities and colleges, as well as research positions in industry, private research institutions, national laboratories, and regulatory agencies.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits from various oceanography courses. They are also required to pass a foreign language exam and a qualifying exam, and submit a thesis.

Ph.D. candidates are required to earn an additional 36 credits from various oceanography courses. They are also required to pass a foreign language exam and a qualifying exam, and submit a thesis.

■ What Do You Study?

Seminar in Marine Environment I (3)
Seminar in Marine Environment II (3)
Regional Oceanography I (3)
Regional Oceanography II (3)
Estuarine Oceanography (3)
Intertidal Oceanography (3)
Advanced Sedimentology (3)
Advanced Sedimentary Structure (3)
Advanced Quaternary Geology (3)
Special Topics on Tidal Geology (3)
Underwater Acoustics (3)
Advanced Deep-sea Geology (3)
Advanced Littoral Sedimentary Environment (3)
Circulation in Coastal Ocean (3)
Environmental Assessment in Coastal Ocean (3)
Advanced Remote Sensing (3)
Geophysical Fluid Dynamics (3)
Advanced Ecology of Plankton (3)
Special Topics on Benthic Ecology (3)
Special Topics on Fish Ecology (3)
Seminar in Marine Ecology I (3)
Seminar in Marine Ecology II (3)
Advanced Wave Dynamics (3)
Advanced Ocean Currents (3)

Advanced Tides Dynamics (3)
Advanced Dynamical Oceanography (3)
Seminar in Chemical Oceanography (3)
Advanced Seawater Analysis (3)
Seminar in Marine Pollution (3)
Advanced Carbonate Rock (3)
Advanced Physical Oceanographic Exploration (3)
Seminar on Physical Oceanography (3)
Advanced Marine Biology (3)
Advanced Clastic Sedimentary Rock (3)
Shallow Water Tides (3)
Marine Community Ecology (3)
Advanced Marine Meteorology (3)
Ecology of Marine Zooplankton (3)
Ecology of Marine Phytoplankton (3)
Marine Resource Management (3)
Marine Zoo-benthic Ecology (3)
Marine Phyto-benthic Ecology (3)
Advanced Submarine Stratigraphy (3)
Advanced Marine Chemistry (3)
Advanced Marine Geology (3)
Advanced Chemical Oceanography (3)
Climate Modelling and machine learning (3)
Climate data machine learning (3)
Atmosphere Ocean General Circulation (3)
Big Data Analysis (3)
Field expedition and observation (3)
Big Data Analysis in Earth Sciences (3)
Advanced Marine Paleontology (3)
Marine population ecology (3)
Advanced Marine Microbial Ecology (3)
Marine biology and systematics (3)
Marine Biology Studies (3)
Marine biogeochemistry (3)
Numerical Ocean Modeling (3)
Advanced Marine Geochemistry (3)
Ocean science machine learning (3)

■ Professors

- Kwang Young Kim, Ph.D.
  [Professor, Marine Ecology, kykim@jnu.ac.kr]
- Byeong-Gweon Lee, Ph.D.
  [Professor, Chemical Oceanography, blee@jnu.ac.kr]
- Myung Gil Park, Ph.D.
  [Professor, Biological Oceanography, mpark@jnu.ac.kr]
- Byoung-Ju Choi, Ph.D.
  [Professor, Physical Oceanography, bchoi@jnu.ac.kr]
- Jee-Hoon Jeong, Ph.D.
  [Professor, Atmospheric Science, jjeehoon@jnu.ac.kr]
- Yoo-Geun Ham, Ph.D.
  [Professor, Atmospheric Science, ygham@jnu.ac.kr]
- Tae-Hoon Kim, Ph.D.
  [Associate Professor, Chemical Oceanography, thkim80@jnu.ac.kr]
- Se Hyeon Jang, Ph.D.
  [Assistant Professor, Biological Oceanography, shjang@jnu.ac.kr]

■ Laboratories

Ecological Impact in Coastal Zone Lab

(Advisor: Kwang-Young Kim)

Research is conducted on photosynthetic and fouling processes of coastal zones, which represents an extremely contaminated region. An effort is made to understand how prevalent environmental parameters can influence the benthic population dynamic and community structures in the various habitats

Metal Ecology Tocisity Laboratory; MET

(Advisor: Prof. Byeong-Gweon Lee)

Research in this lab focus on metal biogeochemistry aquatic environments. Research is conducted on chronic toxicological effects of metals to aquatic organisms, and evaluation of sedimentary quality criteria for metals.

Laboratory OF HAB Ecophysiology; LOHABE

(Advisor: Prof. Myung Gil Park)

Research is conducted on Planktonic members of most algal group known to harbor intercellular symbionts including viruses, bacteria, fungi, and protozoa.

Climate Prediction Lab;CPL

(Advisor: Prof. Jee-Hoon Jeong)

This lab (CPL) conducts various studies on climate variabilities, climate change, and climate modeling. The accurate climate prediction over seasonal to interannual time-scale is a principal aim of the research.

Ocean & Climate Science Lab.

(Advisor: Prof. Yoo-Geun Ham)

This lab conducts studies on sub-seasonal, interannual, and decadal climate variability over the tropics (e.g. El Nino, AMOC), climate change/sensitivity after the global warming, and the development of the initialization system including the data assimilation and the optimal perturbation method for sub-seasonal, seasonal to decadal prediction by using a global coupled climate model. To understand the physical mechanisms of the climate variability and the improvement of the seasonal predictability is the main aim of the research.

Physical Oceanography Lab.

(Advisor: Prof. Byoung-Ju Choi)

To understand physical processes in the ocean, observation data such as temperature, salinity, currents and sea level are collected and analyzed in Physical Oceanography Laboratory. We also study ocean circulation using Numerical Models and Ocean Data Assimilation. Recently, regional ocean modeling systems (ROMS) for Northwestern Pacific Ocean, Yellow and East China Sea, Korea Strait, and East Sea have been used for real time ocean prediction and research.

Marine Biogeochemistry Lab.

(Advisor: Prof. Tae-Hoon Kim)

This lab (MBL) conducts studies on carbon and nutrients being transformed by biological, geological, and chemical processes in the ocean. Our research is to determine fluxes of chemical species via the atmosphere, groundwater, and river to the ocean, to understand biogeochemical reactions, cycling, and sedimentation of chemical species in oceans, and to evaluate advantages of various radionuclides for tracing these environmental processes.

Marine Environmental and Molecular Ecology Lab.

(Advisor: Prof. Se Hyeon Jang)

The Marine Environmental and Molecular Ecology (MEME) Laboratory uses molecular genetic approaches to tackle ecological and oceanographic questions in the context of a rapidly changing marine environment. We are now gearing towards a better understanding of marine ecosystems in relation to their structures and functions. In particular, we are studying marine plankton and also targeting various marine organisms without boundaries that biologically interact with them.

Biological Sciences and Biotechnology

Contact Information
Phone: +82-62-530-3390
Fax: +82-62-530-3409
E-mail: sbst@jnu.ac.kr
URL: http://sbst.jnu.ac.kr

■ Graduate Studies in Biological Sciences and Biotechnology

Biological Sciences and Biotechnology is the field of study which explores the principles of life phenomena and applies the results of scientific research to high-tech industries. This is a field of cutting-edge technology which strives to promote the health and welfare of humankind, focusing on such diverse fields as medicine, health, pharmaceuticals, food, environment, agriculture and energy. It is a future-oriented industrial field that can create numerous high-value-added industries in the knowledge-based society of the 21st century.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits to graduate.

■ What Do You Study?

Advanced Mycology (3)
Advanced Immunology (3)
Advanced Microbial Systematics (3)
Advanced Molecular Biology (3)
Molecular Cell Biology (3)
Advanced Molecular Genetics (3)
Reproductive Endocrinology (3)
Advanced Ecology (3)
Advanced Plant Systematics (3)
Special Topics in Plant Physiology (3)
Advanced Plant Ecology (3)
Advanced Phycology (3)
Advanced Biostatistics (3)
Infection Immunology (3)
Cell Signalling (3)
Cellular and Molecular Immunology (3)
Methods in Molecular Immunology (3)
Methods in Molecular Biology (3)
Reproductive Biology (3)
Cell Culture Engineering (3)
Aging & Cancer Biology (3)
Artificial Evolution of Protein (3)
Metagenomics (3)
Special Topics in Molecular Endocrinology (3)
Molecular Physiology (3)
Comparative Genomics (3)
Special Topics in Physiology (3)
Bioethics (3)
Special Topics in Aquatic Biology (3)
Special Topics in Plant Molecular Biology (3)
Special Topics in Neurobiology (3)
Enzyme and Proteomics (3)
Advanced Biotechnology (3)
Genomic Stability (3)
Physiology of aging (3)
Plant Stress Physiology (3)
Research and Communication1 (3)
Research and Communication2 (3)
Advanced molecular research (3)
Research Guidance 1 (3)

Research Guidance 2 (3)
Research Guidance 3 (3)
Biomaterials (3)
Plant Development (3)
Bioimaging (3)
Advanced Ecomimetics (3)
Cancer Biology (3)
Safety and intellectual property Management for Researchers (3)
Research Training 1 (3)
Research Training 2 (3)
Molecular cell biology capstone design1 (3)
Molecular cell biology capstone design2 (3)
Ecological Environmental Seminar (3)
Molecular and Cellular Biology Seminar (3)
Current topics of basic medical science (3)
Advanced Biomimetics (3)
General Ecological Environmental Capstone Design1 (3)
General Ecological Environmental Capstone Design2 (3)
System Biotechnology capstone design1 (3)
System Biotechnology capstone design2 (3)
Bioanalytic systems (3)
Research methods in animal behavior (3)
Bio future energy seminar (3)
Epigenomics (3)
Industrial Microbiology and Intellectual Property (3)
IP based bio-big data and machine learning (3)
bioenergy capstone design (3)
Advanced study in future energy (3)
Cellular Mechanobiology (3)
Advances in cell differentiation (3)
bio signaling and energy (3)
Energy and intellectual property rights (3)
Plant Gene Expression (3)
Advanced Human Physiology (3)
Advanced Animal Behavior and Ecology (3)
Master guide laboratory animal practice (3)
Biomolecules and Regulation of Metabolism (3)
Stem Cell Biology (3)
Advanced Plant Genetics (3)
Topics in plant biotechnology (3)
Scientific Writing in Biomedical Science (3)
Advanced systems biology (3)
Advanced Omics (3)

■ Professors

- Jaemog Soh, Ph.D.
  [Professor, Genetics, jaemsoh@gmail.com]
- Chul-Ho Yun, Ph.D.
  [Professor, Functional Proteomics, chyun@jnu.ac.kr]
- Hueng-Sik Choi, Ph.D.
  [Professor, Molecular Endocrinology, hsc@jnu.ac.kr]
- YoungChul Lee, Ph.D.
  [Professor, Microbial Genetics, yclee@jnu.ac.kr]
- ChangSoo Kim, Ph.D.
  [Professor, Molecular Neurogenetics, changgk@jnu.ac.kr]
- Hee-Sae Park, Ph.D.
  [Professor, Molecular Cell Biology, proteome@jnu.ac.kr]
- Hyung Sik Kang, Ph.D.
  [Professor, Immunology, kanghs@jnu.ac.kr]
- YoungHee Joung, Ph.D.
  [Professor, Plant Molecular Biology, yhjoung@jnu.ac.kr]
- Won-Seok Choi, Ph.D.
  [Professor, Neurobiology, choiw@jnu.ac.kr]
- Chungoo Park, Ph.D.
  [Professor, Bioinformatics, chungoo@jnu.ac.kr]

- Geupil Jang, Ph.D.
  [Associate Professor, Plant Developmental and Molecular Physiology, yk3@jnu.ac.kr]
- Soo-Jin Yeom, Ph.D
  [Associate Professor, Synthetic Biology, soojin258@jnu.ac.kr]
- Jae Sung Shim, Ph.D.
  [Assistant Professor, Plant Molecular Genetics, jsshim@jnu.ac.kr]
- Hyung Chul Lee, Ph.D.
  [Assistant Professor, Developmental Biology, hyungchul@jnu.ac.kr]

Major of Biological Sciences

- Hwang Hee Lee Ph.D.
  [Professor, Molecular Cell Physiology, blaise@jnu.ac.kr]
- Hak Young Lee Ph.D.
  [Professor, Phycology, haklee@jnu.ac.kr]
- EungSeok Kim Ph.D.
  [Professor, Molecular Metabolism, ekim@jnu.ac.kr]
- Geun-Joong Kim Ph.D.
  [Professor, Molecular Microbiology, gjkim@jnu.ac.kr]
- Il-Chul Kim Ph.D.
  [Professor, Functional Genomics, ickim@jnu.ac.kr]
- Ha-Cheol Sung Ph.D.
  [Professor, Animal Ecology, shcol2002@jnu.ac.kr]
- Dong-Ha Nam Ph.D.
  [Professor, Ecobiochemistry, dongha@jnu.ac.kr]
- Dong-Hyun Lee Ph.D.
  [Professor, Genomic Stability, donghyunlee73@jnu.ac.kr]
- Eung-Sam Kim, Ph.D.
  [Professor, Cellular Mechabiology, Biomimetics, eungsam.kim@jnu.ac.kr]
- Dong-Hun Lee, Ph.D.
  [Assistant Professor, Animal Physiology, DHUN@jnu.ac.kr]
- Hee-Jin Park, Ph.D.
  [Assistant Professor, Molecular and Cellular Plant Physiology, hjpark_bio@jnu.ac.kr]
- Ji-Hoon Lee, Ph.D.
  [Associate Professor, Biochemistry and Cell Biology, microljh@jnu.ac.kr]

■ Laboratories

Equipment

Phosphoimage analyzer, MALDI-TOF, Digital viscometer, Freeze-dryer system, Scintillation counter, Elisa analyzer, Protein purification system, Deep freezer, Spectrophotometer, Luminometer, Cryocut microtome, Gel documentation system, HPLC, FACS. Ultracentrifuge (table top), Micro- injection system, Automatic DNA sequencer, Akta FPLC.

Department of Future Mobility Convergence

Contact Information
Phone: +82-62-530-4205
E-mail: dhdkfks@jnu.ac.kr
URL: http://imob.jnu.ac.kr

■ Graduate Studies in Artificial Intelligence Convergence

The Department of Future Mobility Convergence deals with various fields such as eco-friendly vehicles, autonomous driving, smart communication and security, Sensors and control are the main core of this interdisciplinary department, as well as fundamental vehicle and mobility dynamics.

Globally, the future mobility industry has been nurtured at the national level as one of the major national industries crucial to the 4th industrial revolution and new technology industry. In line with this, the world's leading universities and global companies are also keen to secure new technologies for future mobility.

Therefore, it is an urgent task to nurture professionals, who will lead the future mobility industry, through efforts such as the development of the future mobility technology knowledge that will lead the future. Accordingly, the Department of Future Mobility Convergence at Chonnam National University intends to play a leading role in researching cutting-edge future mobility technology and nurturing future prospects.

■ Degree Requirements

Master's Program

Students in the master's degree program must acquire 24 credits, courses in the fields of Control System for Mobility, Powertrain Control Engineering, and Electric Machine Design and mobility studies. Students must pass a foreign language test and qualification exam before applying for a thesis examination for the master's degree.

■ What Do You Study?

Advanced Solid Mechanics
Advanced Course of Composite Materials
Advanced Fluid Mechanics
Intelligent Control Engineering
Network Protocols
Computer and Network Security
Visual Information Processing and Recognition
Micro Thermal and Fluid System
Probability and signal processing
Power Semiconductor Engineering
Next Generation Intelligent Convergence Information and Communication Engineering
Computational Mechanics of Materials
Microfluidics
Deep Learning
Precise Sensor and Metrology

Reinforement Learning
Advanced Navigation System for Mobility
Advanced Perception System for Mobility
Control System for Mobility
Powertrain Control Engineering
Advanced Theory of Plasticity
Electric Machine Design
Advanced dynamics
3D Multimedia
Research Guidance 1

■ Professors

- Daeyong Kim, Ph.D.
  [Professor, Structures Design, Manufacturing, Mechanics of Materials, daeyong.kim@jnu.ac.kr]
- Chunhwan Lee, Ph.D.
  [Professor, Powertrain Control, chunhwan@jnu.ac.kr]
- Gyuhae Park, Ph.D.
  [Professor, Smart Material/sensor/actuator, gpark@jnu.ac.kr]
- Chansoo, Kim, Ph.D.
  [Assistant Professor, Autonomous driving, chansoo.kim@jnu.ac.kr]
- Yong Min, You, Ph.D.
  [Associate professor, [Electric vehicles, Electric machines, ym.you@jnu.ac.kr]
- Seung-won, Kim, Ph.D.
  [Assistant Professor, AR/VR, Seungwon.Kim@jnu.ac.kr]
- TaeJune Park, Ph.D.
  [Assistant Professor, Information Security/Network, taejune.park@jnu.ac.kr]
- Myoungjin Lee, Ph.D.
  [Professor, Semiconductor device & Circuit design, mjlee@jnu.ac.kr]
- Seoung-Yun Seol, Ph.D.
  [Professor, Super Conductors, syseol@jnu.ac.kr]
- Wonoh Lee, Ph.D.
  [Professor, Composite Materials / Mechanics of Inelastic Materials, wonohlee@jnu.ac.kr]
- Hyun Wook Kang, Ph.D.
  [Associate Professor, AI based thermal-fluidic Engineering, Microfluidics, Nano Engineering, kanghw@jnu.ac.kr]
- Jinsoo Park, Ph.D.
  [Assistant Professor, Microfluidics / Flow Visualization, jinsoopark@jnu.ac.kr]
- Seunghwoi Han, Ph.D.
  [Assistant Professor, Laser engineering, nano optics, optical sensor, shan@jnu.ac.kr]
- Jaehyung Park Ph.D.
  [Professor, State-of-the-Art of Network Technology and Security, hyeoung@jnu.ac.kr]
- Sung-Hoon Hong, Ph.D.
  [Professor, Image Processing, hsh@jnu.ac.kr]
- Taejin Jung, Ph.D.
  [Professor, Wireless Communication, tjjung@jnu.ac.kr]

■ Laboratories

- Structures Design and Manufacturing Lab.
- Mobility System Engineering Lab.
- Composites & Mechanics Lab.
- Advanced Fluidics and Nano Technology Lab.
- Multiscale Flow Control Lab.
- Ultraprecision Photonics Lab.
- Visual Information Processing&System Lab.
- Active Structures and Dynamics Lab
- Artificial Intelligence&Mobility Lab.
- lectric propulsion system Lab.
- Augmented/Virtual reality Lab.
- Secure and Reliable Computing Lab.
- Intelligent Semiconductor and Circuit Lab.

Department of Cultural Studies

Contact Information
Phone: +82-62-530-4079
Fax: +82-62-530-4069
URL: https://culture.jnu.ac.kr

■ Graduate Research in Cultural Studies

The GSC opened a Ph.D. program in 2014 in order to produce competent scholars in cultural studies. The GSC offers the Ph.D. program that combines rigorous work in cultural theory and planning, diversified study of cultural content and technology, and practical experience in cultural marketing and tourism. We pursue a collaborative environment between faculty and students while providing intensive training including many different courses and writing research papers related to cultural studies. We are eager to help students become future scholars, researchers, and practitioners of cultural studies.

■ Degree Requirements

To obtain a Ph.D. degree, a student must meet the following requirements:

1) 36 credit hours in the Cultural Studies and a minimum of 24 credit hours in the major.
2) Students need to demonstrate proficiency in one foreign language (English, Chinese, French, German, or Japanese) and pass a foreign language test recognized by their department.
3) submit a “Proposal for Dissertation” under the supervision of his/her dissertation advisor.
4) submit and defend an acceptable dissertation.

■ What Do You Study?

Adaptation(3)
Emotional Imagetelling studies(3)
Spatial Culture and Place Marketing(3)
Publicity, Art, City(3)
Study on Community Theories and Shared Culture(3)
Introduction to Structural Equation Modeling(3)
Glocal Cities, Arts and Culture(3)
New Media Content Studies(3)
City Culture Management(3)
Seminar on Contemporary Art & Culture(3)
Digital Culture Contents studies(3)
Digital Realistic Media Content Analysis(3)
Media Aesthetics(3)
Culture Governance Research(3)
Data Analysis in Cultural Management(3)
Culture Management Research Methods(3)
Qualitative Research in Cultural Management(3)
Cultural Tourism Marketing(3)
Cultural Semiotics(3)
Discourses in Contemporary Art and Culture(3)
Cultural Service Assessment(3)
Culture service experience Studies(3)
Methodologies for Cultural Studies(3)
Cultural Studies Seminar(3)
Culture and Art Management(3)
Arts & Cultural Education Policy(3)
Culture & Image Studies(3)
Culture Technology Seminar(3)

Culture convergence service studies(3)
Seminar on Cultural Policy(3)
Cultural Policy(3)
Cultural Healing Studies(3)
Media Article Workshop(3)
Imagination and Culture(3)
Ecotourism Studies(3)
Theory of Visual Culture(3)
Analysis of Visual Contents(3)
Research Training 1(3)
Video Content Analysis(3)
Convergence contents seminars(3)
Study of Korean Popular Culture(3)
Community Tourism Studies(3)
Seminar in Cultural Exchange(3)
Local Cultural Contents(3)
Festival Studies(3)

■ Professors

- Kyung-woon Jeong, Ph.D.
  [Professor, Narratology, kw518@yahoo.co.kr]
- Ki-Hyun Park, Ph.D.
  [Professor, Media Aesthetics/Cultural Theory, dumal@jnu.ac.kr]
- Jina Kim, Ph.D.
  [Professor, Art History/Cultural Studies/Exhibition Studies, jkart@jnu.ac.kr]
- Shi-Hun Noh, Ph.D.
  [Professor, Cultural Contents, shnoh@jnu.ac.kr]
- Kyoung-Soo Kim, Ph.D.
  [Professor, Multimedia Design, ks@jnu.ac.kr]
- Choon-Sung Shin, Ph.D.
  [Associate Professor, Digital Culture Contents/ AR·VR/ Culture Technology, cshin@jnu.ac.kr]
- Trina Hyunjin Byun, Ph.D.
  [Associate Professor, Media Art/Digital Art, aawoo@jnu.ac.kr]
- Mu-Yong Lee, Ph.D.
  [Professor, Place Marketing/Festival Studies/Urban Culture Management, cult@jnu.ac.kr]
- Shin-Kyum Kang, Ph.D.
  [Professor, Tourism(Cultural Tourism Marketing/ Ecotourism), tourlab@jnu.ac.kr]
- Ji-Hyon Park, Ph.D.
  [Assistant Professor, Arts & cultural management, jihyon0906@jnu.ac.kr]
- Chi-Ok Oh, Ph.D.
  [Professor, Tourism Management/Tourism Economics, chiokoh@jnu.ac.kr]

Department of Law

Contact Information
Phone: +82-62-530-2220
Fax: +82-62-530-2209
E-mail: cnulawschool@jnu.ac.kr
URL: http://lawschool.jnu.ac.kr

■ Graduate Studies in Law

Law is the formal regime that orders human activities and relations through a systematic application of the force of a politically organized society.

Laws may require or proscribe given actions and empower the members of the society governed by such laws to engage in certain activities, such as entering into contracts and drafting wills. Laws may also simply mandate what procedures are to be followed under a given situation.

In most countries only those professionals trained in the law can effectively understand and explain legal principles, draft relevant documents, and guide parties through legal disputes, whether with another private party (civil law) or with the government (public law, often involving constitutional or criminal law).

■ Degree Requirements

Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass both a comprehensive and a foreign language exam as well as submit a thesis.

Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

For Integrated Degree (Master's and Doctoral) candidates are required to earn 54 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Economic Crime (3)
General Theories of Economic Law (3)
Case Study on Economic Law (3)
Termination of Contract (3)
Theory of State (3)
Governmental Liability and Compensation (3)
International Trade Law (3)
International Economic Law (3)
General Theory of International Law (3)
International Human Rights Law (3)
International Humanitarian Law (3)
International Environmental Law (3)
Fundamental Rights (3)
Advanced Study of Fundamental Rights (3)
Fundamental Labor Rights (3)
Law of Collective Labor Relations (3)
General Theoties of Labor Law (3)
Case Study on Labor Law (3)
Law of Company (3)
Roman Law (3)

Studies on Law of Real Rights (3)
American Family Law (3)
Provisional Remedies (3)
Cases on Civil Procedure (3)
Law of Civil Evidence (3)
Enforcement of Judgments (3)
Case Study on Civil Procedure (3)
Anti-discrimination Movement and Law (3)
Criminology (3)
Sociology of Law (3)
Legal Positivism (3)
Feminist Jurisprudence (3)
Study on Corporate Tax Law (3)
Legal Reasoning (3)
Measures of Security (3)
Studies On Insurance And Maritime Law (3)
Study on VAT (3)
Studies on Law of Tort (3)
Comparative Labor Law (3)
Introduction to comparative private law (3)
Comparative Commercial Law (3)
General Theories of Comercial Law (3)
Commercial Law Cases1 (3)
Trademark and Design Law (3)
History of Western Legal Philosophy (3)
Studies On Tax Law (3)
Consumer Protection Law (3)
Study on the trust law (3)
A study on decision by feminist viewpoint (3)
Anglo-American Law (3)
Studies on Human Rihgts Law (3)
Human Rights Theory (3)
Legislation (3)
Natural Law (3)
Copyright Law (3)
Law of Electronic commerce (3)
Historical Philosophy in East Asian Traditional (3)
Legal Culture (3)
The Spirit of Law in East Asian Tradition (3)
Law and Politics (3)
Chinese Law (3)
Local Government Law (3)
Special Topics in Intellectual Property Law (3)
Studies on Law of Obligations (3)
Patent Law (3)
General Theories of Administrative Law (3)
Administrative Operative Law (3)
Exhaustion of Administrative Remedies and Judicial Review (3)
Administrative Organization Law (3)
Administrative Action (3)
History of Constitution (3)
General Study of Constitutional Law (3)
Constitutional Review (3)
Case Studies on Constitutional Law (3)
General Theories of Criminal Law (3)
Advanced Study on Criminal Law (3)
General Theories of Criminal Procedure (3)
Theory of Evidence in Criminal Procedure (3)
Special Criminal Acts (3)
Case Studies in Criminal Law and Procedures 1 (3)
Case Studies in Criminal Law and Procedures 2 (3)
Studies On Company Law (3)

■ Professors

- Bong-Su Kim, Ph.D.
  [Criminal Law, ant103683@jnu.ac.kr]
- Song Kim, Ph.D.
  [Civil Law, kimsong5@jnu.ac.kr]
- Soon-Suk Kim, LL.M. Ph.D.
  [Commercial Law, soonskim@jnu.ac.kr]
- Yeon-Mi Kim, Ph.D.
  [Philosophy of Law, yeonmy@jnu.ac.kr]
- Jae-Seung Kim, J.D. LL.M. LL.D.
  [Tax Law, kimjjss@jnu.ac.kr]
- Ji-Su Kim, Ph.D.
  [Korean & Chinese Legal History and Philosophy, Chinese Law. Lotus.-Bud@jnu.ac.kr]
- Hyun-Chul Kim, Ph.D.

[constitutional Law, hckim77@jnu.ac.kr]
- Shi-Won Ryu, J.D. S.J.D.
[Intellectual Property Law, swryu@jnu.ac.kr]
- Chen-Chel Ryu, Ph.D.
[Criminal Law, ccryu@jnu.ac.kr]
- Ki-Seok Moon, J.D.
[American Law, kmoon@jnu.ac.kr]
- Deok-Min Moon, Ph.D.
[Criminal Law, moondeokmin@jnu.ac.kr]
- Byung-Ro Min, Ph.D.
[Constitutional Law, byungro@jnu.ac.kr]
- In-Ho Park, M.A.
[Commercial Law, ihpark12@jnu.ac.kr]
- Jong-Mi Park, B.A.
[Civil Law, pjm45646@jnu.ac.kr]
- Chang-Weon Seo, B.A.
[Civil Procedure, shb@jnu.ac.kr]
- Seung-Hyeon Seong, Ph.D.
[Civil Law, gaius@jnu.ac.kr]
- Oh-Sik Song, Ph.D.
[Civil Law, gaius@jnu.ac.kr]
- Sung-Po An, LL.M. Ph.D.
[Commercial and Trust Law, sungpo@jnu.ac.kr]
- Jean Ahn, Ph.D.
[Human Right Law, jean7475@jnu.ac.kr]
- In-Kyu Wi, B.A.
[Criminal Law, wiinkyu@jnu.ac.kr]
- Sin-Sung Yun, LL.M.
[Civil Law, ssyun617@jnu.ac.kr]
- Soon-Uk Lee, Ph.D.
[Criminal Law, soonuklee@jnu.ac.kr]
- Seng-Woo Lee, Ph.D.
[Civil Law, sengwoo@jnu.ac.kr]
- Young-Moo Lee, M.A.
[Administrative Law and Public law, shushanke@jnu.ac.kr]
- Jun-Min Lee, LL.M.
[Civil Law, juminlee@jnu.ac.kr]
- Ji-Hyeong Lee, LL.M.
[Civil Law, klara@jnu.ac.kr]
- Hyun-Jai Lee, M.A.
[Civil Law, woomoon@jnu.ac.kr]
- Byung-Seok Lim, B.A.
[Civil Law, bslim11@jnu.ac.kr]
- Yoon-Soon Jang, B.A.
[Competition Law, yunsoon1021@jnu.ac.kr]
- Byung-Seok Jeong Ph.D.
[Commercial Law, bsjeong@jnu.ac.kr]
- Hoon Jeong, Ph.D.
[Administrative Law and Environmental Law, jh8341@jnu.ac.kr]
- Sang-Kyun Cho, Ph.D.
[Labor Law, skcho@jnu.ac.kr]
- Seon-Yeong Cho, Ph.D.
[Administrative Law, sycho302@jnu.ac.kr]
- Seon-Ja Cha, Ph.D.
[Law and Women, seonja@jnu.ac.kr]
- Kwang-Sun Choi, Ph.D.
[Civil Procedure, choiks@jnu.ac.kr]
- Byung-Chun Choi, Ph.D.
[Criminal Law, bcchoi88@jnu.ac.kr]
- Hye-Sun Choi, Ph.D.
[International law and International Transaction Law, chs45647@jnu.ac.kr]
- Hwan-Ju Choi, Ph.D.
[Civil Procedure, hjchoi@jnu.ac.kr]
- In-Seon Ham, Ph.D.
[Administrative Law, isham@jnu.ac.kr]
- Wan-Jung Heo, Ph.D.
[Constitutional Law, hanjunior@jnu.ac.kr]
- Kwan-Pyo Hong, B.A.
[Human Right, feder@jnu.ac.kr]
- Seok-Han Hong, Ph.D.
[Constitutional Law, shhong@jnu.ac.kr]

Interdisciplinary Graduate School of NGOs

Contact Information
Phone: +82-62-530-3916
Fax: +82-62-530-3918
E-mail: cnu518@daum.net
URL: http://cnu518.jnu.ac.kr/

Graduate Studies in NGOs

Civil society and NGOs have emerged as one of the most important actors in society in the 21st century and research on both social cohesion and formation. Also, the developmental process of Korean civil society, conceptual studies of civil society, research on political implications, and regional and national comparative studies between the two are being actively developed in the field of social science. In particular, the importance of research on civil society is not limited to an academic perspective but has practical implications for seeking a positive role for civil society in the development of democracy, and its importance is being highlighted. In this context, the Interdisciplinary Graduate Program of NGOs was established in 2002 with the educational goal of cultivating professional manpower in civil society and NGO fields, with the academic goal of establishing NGO studies, and the practical goal of playing a central role in the network of NGO activists and researchers.

Degree Requirements

Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

What Do You Study?

5·18 and Human Rights (3)
May 18 Uprising and NGOs (3)
Theory of Reform Movement (3)
Governance and NGO (3)
Law of International Organizations (3)
International Conflicts and Peace Movement (3)
International Migration and Women (3)
International NGO (3)
History of Human Rights in Modern East Asia (3)
Political History of Modern East Asia (3)
Fundamental Rights (3)
Labor Movements (3)
Rural Society Movements (3)
Urban Society Movements (3)
History of East Asia Relations (3)
Culture Movement and NGOs (3)
Media & NGO (3)
Law and Society (3)
Social Work and NGO (3)
Social Movement (3)
Social Economy (3)
Social Economic Ecosystem (3)
Social Economy and Civil Society (3)
Social Enterprise (3)

Seminar on the Civil Society (3)
Introduction to Civil society & Social movement (3)
Democracy and Participatory Democracy (3)
Civic Participation (3)
Seminar on New Social Movement (3)
Mass Media & Social Movements (3)
Women and Family Policy (3)
Women and Society (3)
Social welfare policy of Women (3)
Women's Movements (3)
Women policy analysis (3)
Research Training 1 (3)
Research Training 2 (6)
Human Rights and International Relations (3)
Democracy and Human Rights (3)
Human Rights and NGO (3)
Studies on Human Rihgts Law (3)
The Philosophy of Human rights (3)
Humanities and Civil Society (3)
Civil Movements via Internet (3)
Capitalism and Social Economics (3)
Voluntaries (3)
Information Society & NGO (3)
Information and Public Sector (3)
NGO and Government (3)
Women in the Third world (3)
Gender political and economic (3)
Local Autonomy (3)
Post Colonialism (3)
Korean Social Movements History (3)
Civil society and NGO in Korea (3)
Advanced Korean Politics (3)
Korea contemporary history (3)
Comtemporary Society & NGO (3)
Environmental Movements (3)
Environmentalism and Ecology (3)
Political Economy for NGOs (3)
NGO and Law (3)
NGO Case Study(Ⅰ) (3)
NGO Case Study(Ⅱ) (3)
Introduction to NGO Studies (3)
NGOs and Networks (3)
NGOs and Election Politic in Korea (3)
NGO Policy (3)
NGO Research Methods (3)
NGO Administration and Management (3)

■ Professors

• Min Byung-Ro, Ph.D.
[Professor, Constitutional Law, byungro@jnu.ac.kr]
• KIM, Hyung-Ju, Ph.D.
[Assistant Professor, Sociology, achung2002@jnu.ac.kr]
• KIM, Hee-Song, Ph.D.
[Assistant Professor, Sociology, hesal@jnu.ac.kr]

Department of Intellectual Property Convergence

Contact Information
Phone: +82-62-530-5371
Fax: +82-62-530-5379
E-mail: jnuipe@jnu.ac.kr
URL: https://jnuipe.com/graduate/main.do

■ Graduate Studies in Intellectual Property Convergence

The Department's Goal: To nurture intellectual property-based convergence experts who can lead the era of the Fourth industrial revolution and regional innovation industries.

The Department of Intellectual Property Convergence at CNU Graduate School was established with the goal of nurturing intellectual property-based convergence talent who will lead the Era of the Fourth Industrial Revolution and lead regional innovation industries. In order to foster intellectual property experts needed in regional and national industries, the department established a shared intellectual property professional training hub at university and is operating a unique convergence and complex intellectual property curriculum.

■ Degree Requirements

Applicants for the master's degree are required to acquire 24 credits (maximum 10 credits per semester). They must pass comprehensive exams and foreign language exams before successfully defending their theses to obtain the degree.

Applicants for the doctoral degree are required to acquire 36 credits (maximum 10 credits per semester). They must pass comprehensive exams and foreign language exams before successfully defending their dissertations to obtain the degree.

Applicants for a combined master's and doctoral degree are required to acquire 54 credits (maximum 10 credits per semester). They must pass comprehensive exams and foreign language exams before successfully defending their dissertations to obtain the degree.

■ What Do You Study?

Patent Law (3)
Trademark Law (3)
Special Research on Intellectual Property Law (3)
Copyright Law (3)
Special Information Management Research (3)
Design Semiotics (3)
Knowledge Management and Artificial Intelligence (3)
Design Seminar (3)
Design Paradigm (3)
Renewable Energy and Intellectual Property (3)
Energy Materials Analysis and IP (3)
Biomedical Signals and Energy (3)
Regional Innovation System and Intellectual Asset Management Theory (3)
Industry-Academia-Research Partnerships and Intellectual Property Research (3)
Understanding Intellectual Property (3)
Patent Information Research and Analysis (3)

IP - R&D and Patent Strategy (3)
Trademark and Brand Strategy (3)
Information Society and Copyright (3)
IP Evaluation (3)
Patent Infringement Research (3)
Patent Application Practice (3)
Intellectual Property Research Seminar (3)
Technology Transfer and Commercialization (3)
Special Topics in IP Management (3)
Infringement and Protection of Intellectual Property Rights (3)
Intellectual Property-Based Synthetic Chemistry (3)
AI Big Data-Based Inorganic Synthetic Chemistry and IP (3)
Intellectual Property Protection of Environment-Related Technology (3)
Introduction to Green Energy (3)
Special Topics in Environment and Energy-Related Intellectual Property (3)
Environment and Energy-Related Intellectual Property Seminar (3)
Biomedical Intellectual Property (3)
Digital Business and Intellectual Property Management (3)
Technology Management Innovation Theory (3)
Special Topics in Quantitative Informatics (3)
Intellectual Property Rights and Fair Trade (3)
Environment-Related Intellectual Property Practice (3)

■ Professors

- Ko Il-sang[professor, Business Administration, isko@jnu.ac.kr]
- Kim Eun-hee[professor, Business Administration, eheekim@jnu.ac.kr]
- Na Ju-mong[professor, Local Economy, najumong@jnu.ac.kr]
- Nam Ho-jung[professor, Design Studies, hojungn@jnu.ac.kr]
- Ryu Shi-won[professor, Intellectual Property, swryu@jnu.ac.kr]
- Park In-ho[professor, Law, ihpark12@jnu.ac.kr]
- Seo Il-won[professor, Technology Management, veny.seo@jnu.ac.kr]
- Shin Woo-jin[professor, Regional Planning, sayurban@jnu.ac.kr]
- Lee Jun-seong[professor, Natural Sciences, leespy@jnu.ac.kr]
- Chang Woo-kwon[professor, Library and Information Science, wk1961@jnu.ac.kr]
- Jung Ho-yung[professor, Engineering, jungho@jnu.ac.kr]
- Cho Sung-june[professor, Engineering, sjcho@jnu.ac.kr]
- Choi Won-seok[professor, Biology, choiw@chonnam.ac.kr]
- Choi Tae-jong[professor, Optimization and Application, ctj17@jnu.ac.kr]
- Kang Hyun-jung[Research professor, Accounting, hjkang8@jnu.ac.kr]
- Kim Ji-woong[Research professor, Business Administration, kim77@jnu.ac.kr]
- Park Joo-hyun(Research professor, Intellectual Property, pjhc1328@jnu.ac.kr]

Dental Science

Contact Information
Phone: +82-62-530-5808
Fax: +82-62-530-5810
URL: http://dent.jnu.ac.kr

■ Graduate Studies in Dental Science

The courses provide the ability to acquire rapidly developing knowledge of dentistry, to raise new concerns, to contribute to the development of dentistry through continuous research activities, to solve problems, and to educate acquired knowledge, skills, and research results. It also has a mission to serve the community through education.

■ Degree Requirements

The length of coursework for graduate programs shall be 2 years or more for the master's degree program, 2 years or more for the Ph.D. Program, and 4 years or more for the joint master's and Ph.D. degree program.

Master's degree candidates are required to earn 24 graduate credits (minimum of 9 credits in this department) and Ph.D. candidates are required to earn 36 graduate credits (minimum of 12 credits in this department). Students may not take more than 10 credits a semester. A grade of C or better is acceptable in the master's degree program, and a grade of B or better in the Doctoral Program.

■ What Do You Study?

Removable Partial Prosthodontics
Statistical Applications in Orthodontics
Oral Microbiology
Experiment of Oral Pathology
Prevention of Oral Disease
Oral and Maxillofacial Minor Surgery
Growth and Development of Oromaxillofacial Tissue
Oral and Maxillofacial imaging
Oral Epidemiology
Oncology of Oral Cavity
Study on Oral Diagnosis & Oral Medicine
Team Approach of Cleft Lip and Palate
Geriatric Dental Health
Ceramic Restoration
Applied Anatomy of the Head and Neck
Oral & Maxillofacial Sonography
Digital oral and maxillofacial surgery
Orthodontic Management of Prosthodontic Patient
Stress analytics of prosthesis using finite elements method
Technics in Molecular Biology
Adult Dental Health
Pediatric Oral and Maxillofacial Surgery
Surgical Orthodontic Treatment
Esthetic Aspects in Orthodontics
Esthetic Prosthodontics
Esthetic Restorative Materials
Esthetic Dentistry
Functional Jaw Orthopedics

Maxillofacial Traumatology
Orofacial Pain and Dental Neurophysiology
Pharmacological Control of Orofacial Pain
Cariology
Interdisciplinary Dentistry1
Interdisciplinary Dentistry2
Implant Surgery 1
Implant Surgery 2
Community Dental Health
Prosthodontic Treatment for Edentulous Patinet
Modern Endodontic Therapy
Metallic Dental Materials
Molecular Biology in Dentistry
Dental Cements
Current Topics of Dental Materials
Properties and Evaluation of Dental Materials
Pathology of Pulpal & Periapical Diseases
The Dental Pulp Biology
Pathology of Dental Caries
Methodology for Dental Research(Ⅰ)
Methodology for Dental Research(Ⅱ)
Current Trends of Dental Science(Ⅰ)
Current Trends of Dental Science(Ⅱ)
Current Topics of Dental Science (Ⅰ)
Current Topics of Dental Science(Ⅱ)
Microbial Aspects of Periodontal Disease
Histophysiology of Periodontal Disease
Current topics in Periodontology
Diseases of Salivary Glands
Specialized Radiographic Techniques
School Dental Health
Mixed Dentition Treatment

■ Professors

- Kang, In-Chol,
  [Professor, Department of Oral Microbiology, ickang@jnu.ac.kr]
- Ohk, Seung-Ho,
  [Professor, Department of Oral Microbiology, shohk@jnu.ac.kr]
- Kim, Ok-Jun,
  [Professor, Department of Oral Pathology, js3894@jnu.ac.kr]
- Kim, Young,
  [Associate Professor, Department of Oral Pathology, youngkim2017@jnu.ac.kr]
- Kim, Won-Jae,
  [Professor, Department of Oral Physiology, wjkim@jnu.ac.kr]
- Jung, Ji-Yeon,
  [Professor, Department of Oral Physiology, jjy@jnu.ac.kr]
- Lee, Tae-Hoon,
  [Professor, Department of Oral Biochemistry, thlee83@jnu.ac.kr]
- Park, Sang-Wook,
  [Associate Professor, Department of Oral Biochemistry, swpark@jnu.ac.kr]
- Lee, Eun-Joo,
  [Professor, Department of Oral Anatomy, gracelee59@jnu.ac.kr]
- Kim, Sun-Hun,
  [Professor, Department of Oral Anatomy, ksh@jnu.ac.kr]
- Kim, Min-Seok,
  [Professor, Department of Oral Anatomy, greatone@jnu.ac.kr]
- Choi, Choong-Ho,
  [Professor, Department of Preventive and Public Health Dentistry, hochoi@jnu.ac.kr]
- Chung, Ki-Ho,
  [Associate Professor, Department of Preventive and Public Health Dentistry, prevention@jnu.ac.kr]
- Park, Yeong-Joon,
  [Professor, Department of Dental Materials, yjpark@jnu.ac.kr]
- Song, Ho-Jun,
  [Professor, Department of Dental Materials, songhj@jnu.ac.kr]
- Koh, Jeong-Tae,

[Professor, Department of Pharmacology and Dental Therapeutics, jtkoh@jnu.ac.kr]

- Lee, Shee-Eun,
  [Professor, Department of Pharmacology and Dental Therapeutics, selee@jnu.ac.kr]
- Ryu, Je-Hwang,
  [Professor, Department of Pharmacology and Dental Therapeutics, jesryu@jnu.ac.kr]
- Lee, Seok-Woo,
  [Professor, Department of Dental Science Education, swlee@jnu.ac.kr]
- Lim, Hoi-Soon,
  [Professor, Department of Dental Science Education, hs1964@jnu.ac.kr]
- Oh, Hee-Kyun,
  [Professor, Department of Oral and Maxillofacial Surgery, hkoh@jnu.ac.kr]
- Park, Hong-Ju,
  [Professor, Department of Oral and Maxillofacial Surgery, omspark@jnu.ac.kr]
- Kook, Min-Suk,
  [Professor, Department of Oral and Maxillofacial Surgery, omskook@jnu.ac.kr]
- Jung, Seung-Gon,
  [Associate Professor, Department of Oral and Maxillofacial Surgery, seunggon.jung@jnu.ac.kr]
- Ryu, Jae-Young,
  [Associate Professor, Department of Oral and Maxillofacial Surgery, ryu@jnu.ac.kr]
- Cho, Jin-Hyoung,
  [Professor, Department of Orthodontics, jhcho@jnu.ac.kr]
- Lee, Kyung-Min,
  [Professor, Department of Orthodontics, ortholkm@jnu.ac.kr]
- Oh Min-Hee,
  [Associate Professor, Department of Orthodontics, ohmh@jnu.ac.kr]
- Park, Sang-Won,
  [Professor, Department of Prosthodontics, psw320@jnu.ac.kr]
- Lim, Hyun-Pil,
  [Professor, Department of Prosthodontics, mcnihil@jnu.ac.kr]
- Yun, Kwi-Dug,
  [Professor, Department of Prosthodontics, ykd@jnu.ac.kr]
- Park, Chan,
  [Associate Professor, Department of Prosthodontics, upgradepc@jnu.ac.kr]
- Jang, Woo-Hyung,
  [Assistant Professor, Department of Prosthodontics, awj568@jnu.ac.kr]
- Kim, Young-Joon,
  [Professor, Department of Periodontology, youngjun@jnu.ac.kr]
- Kim, Ok-Su,
  [Professor, Department of Periodontology, periodrk@jnu.ac.kr]
- Oh, Won-Man,
  [Professor, Department of Conservative Dentistry, wmoh@jnu.ac.kr]
- Hwang, In-Nam,
  [Professor, Department of Conservative Dentistry, hinso@jnu.ac.kr]
- Hwang, Yun-Chan,
  [Professor, Department of Conservative Dentistry, ychwang@jnu.ac.kr]
- Chang, Hoon-Sang,
  [Professor, Department of Conservative Dentistry, husch@jnu.ac.kr]
- Lee, Bin-Na,
  [Associate Professor, Department of Conservative Dentistry, wishwishu@jnu.ac.kr]
- Kim, Byung-Gook,
  [Professor, Department of Oral Medicine and Oral Diagnosis, bkkim@jnu.ac.kr]
- Kim, Jae-Hyung,
  [Professor, Department of Oral Medicine and Oral Diagnosis, tmjkim@jnu.ac.kr]
- Im, Yeong-Gwan,
  [Assistant Professor, Department of Oral Medicine and Oral Diagnosis,

imygwise@jnu.ac.kr]
• Choi, Nam-Ki,
[Professor, Department of Pediatric Dentistry, nkchoi@jnu.ac.kr]
• Kim, Seon-Mi,
[Professor, Department of Pediatric Dentistry, impedo@jnu.ac.kr]
• Yoon, Suk-Ja,
[Professor, Department of Oral and Maxillofacial Radiology, yoonfr@jnu.ac.kr]
• Lee, Jae-Seo,
[Professor, Department of Oral and Maxillofacial Radiology, jsyi16@jnu.ac.kr]
• Jang, Eun-A,
[Assistant Professor, Department of Anesthesiology, sunsetglow@jnu.ac.kr]

Major of Dental Bioscience

Contact Information
Phone: +82-62-530-5808
Fax: +82-62-530-5810
URL: http://dent.jnu.ac.kr

■ Graduate Studies in Dental Bioscience

The department fosters creativity and research skills through graduate education with expertise with the aim of forging world-class researchers and competent faculty members who will contribute to dental and life sciences. It strives to develop experts with creative capabilities and nurtures talented people with international perspectives and leadership through the latest knowledge and technologies in dental and life sciences.

■ Degree Requirements

The length of coursework for graduate programs shall be 2 years or more for the master's degree program, 2 years or more for the Ph.D. Program, and 4 years or more for the joint master's and Ph.D. degree program.

Master's degree candidates are required to earn 24 graduate credits (minimum of 9 credits in this department) and Ph.D. candidates are required to earn 36 graduate credits (minimum of 12 credits in this department). Students may not take more than 10 credits a semester. A grade of C or better is acceptable in the master's degree program, and a grade of B or better in the Doctoral Program.

■ What Do You Study?

Physiology of Hard Tissue and Temporomandibular Joint
Advanced Hard Tissue Biology
Finite elements Method in fixed prosthodontics
Case Planning Seminar
TMJ in Orthodontics
Occlusion
Advanced Oral Medicine
Oral Radiology
Review of Recent Studies in Oral Pathology
Special Topics in Oral Physiology
Advanced Course of Oral Biochemistry
Current Topics of Oral and Maxillofacial Surgery
Immunopathology of Oral Cavity
Examination for Oral Diagnosis
Modern Removable Partial Denture
Current Topics root canal molding
Endodontic microbiology
Geriatric Biology
Gerodontics
Theory of Craniofacial Pain
Molecular Pathology of Head and Neck
Immunology and Vaccines
Radiation Biology
Nonsurgical Periodontal therapy
Surgery-first Orthodontics
Growth Modification in Orthodontics
Pediatric Orthodontics

Orthodontic Treatment for Orthognathic Surgery
Orthognathic Surgery
Pathology for Anomaly in Maxillofacial Region
Maxillofacial Anomaly
Maxillofacial Reconstructive Surgery
Research Guidance 1
Research Guidance 2
surgical micro rootcanal acology
Child Dental Health
Special Lectures on Regenerative Medicine 1
Special Lectures on Regenerative Medicine 2
Precision Attachment in Removable Prosthodontics
Tissue Regeneration and Adult Stem Cells
Stem Cell Therapy
Creative Biomedical Science 1
Creative Biomedical Science 2
Growth of Skull After Birth
Dental Polymer Materials
Dental Implant Materials
Developmental Biology in Dentistry
Molecular Phamacology in Dentistry
Cell Biology in Dentistry
Dental Ceramics
Dental Materials Science
Biocompatibility Testing of Dental Materials
Plup and Periapical Disease
Biology of Dental Hard Tissue
Special Introduction to the Research Method of Dental Life Sciences
Periodontal Orthodontic Interrelationship
Microbial Pathogenesis of Periodontal Disease
Periodontic and Prosthodontic Dentistry
Salivary Physiology
Pain Control

■ Professors

• See major of Dental Science Professors

Interdisciplinary Program of Biomedical Engineering

Contact Information
Phone: +82-62-530-5808
Fax: +82-62-530-5810
URL: http://dent.jnu.ac.kr

■ Graduate Studies in the Interdisciplinary Program of Biomedical Engineering

The department's aims are to interpret problems in the medical field, research on advanced medical subjects, and develop advanced medical equipment. the other core goal is to cultivate excellent medical professionals who can contribute to the medical community as well as science and technology through a curriculum composed by related departments.

■ Degree Requirements

The length of coursework for graduate programs shall be 2 years or more for the master's degree program, 2 years or more for the Ph.D. Program, and 4 years or more for the joint master's and Ph.D. degree program.

Master's degree candidates are required to earn 24 graduate credits (minimum of 9 credits in this department) and Ph.D. candidates are required to earn 36 graduate credits (minimum of 12 credits in this department). Students may not take more than 10 credits a semester. A grade of C or better is acceptable in the master's degree program, and a grade of B or better in the Doctoral Program.

■ What Do You Study?

Advanced Hard Tissue Biology
Advanced Interface Engineering
Metallic Biomaterials
Advanced Course of Instrumental Analysis
Protein Engineering
Advanced Protein Engineering
Diagnostic Radiology of RI
Micro/Nano Robotics
Microcapsule
Mechatronics
Biomedical Photonics
Pathology
Hospital information system
Pathophysiology
Advanced Molecular Biology
Advanced Molecular Imaging
Introduction to Physiology
Bioinformatics
Advanced Bioseparation & Purification
Advanced Biopolymers
Biomimetics
Biomedical System Modeling and Analysis
Biomedical Signal Processing
Analysis of Biological Signals for Robot Applications
Cell Technology
Cellular Genetics
Advanced Metabolic Engineering
Esthetic Prosthodontics
Advanced Drug Delivery

Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Instrumental Analysis for Organic Molecules
Metals and Alloys for Medical Use
Medical Robotics
Introduction to Biomedical Imaging
Medicinal Chemistry
Biomedical Digital System Design
Medical Physics
Biomedical Measurement
Biomedical Materials
Advanced Biomechanics
Advanced Biofluid Mechanics
Medical Electronics
Medical Control Device
Medical Imaging
Medical Terminology 1
Medical Terminology 2
Current Trends of Medical Science (Ⅰ)
Current Trends of Medical Science (Ⅱ)
Artificial Neural Network
Clincal Electrophysiology
Tissue Engineering
Theory of Perception and Intelligence
Intelligent Control Theory
Diagnostic Instrument
Current stem cell biology
Dental Materials Science
Fracture Mechanics
Introduction to Anatomy
Image Analysis

■ Professors

- Hoonsung Cho
  [Professor, Biomaterials, cho.hoonsung@jnu.ac.kr]
- Jihoon Kang
  [Associate Professor, Medical Imaging System, jihoon.kang@jnu.ac.kr]
- Dowon Kim
  [Associate Professor, Neuroengineering, Biomedical Signal Processing, owon.kim@jnu.ac.kr]
- Chang-Moon Lee
  [Professor, Molecular Imaging and Therapy, Nanomedicine, Biomaterials, Drug Delivery System, cmlee@jnu.ac.kr]
- KangJu Lee
  [Assistant Professor, Bio/micro medical devices, Micro/nano fabrication, Functional biomaterials, Regeneration applications, knjulee@jnu.ac.kr]
- Young-Jin Jung
  [Associate Professor, Biomedical signal and Image processing, Intelligent rehabilitation engineering, Brain engineering, yj@jnu.ac.kr]
- Bo Kyeong Yoon
  [Assistant Professor, Biosensor, Nanobiotechnology, Antibacterial agent, Antiviral agent, bkyoon@jnu.ac.kr]
- Yun Hyeon Kim
  [Professor, Thoracic Radiology cardiovascular Radiology, yhkim001@jnu.ac.kr]
- Jung Joon Min
  [Professor, Molecular Imaging, Cancer Theragnostics, Nuclear Oncology, jjmin@jnu.ac.kr]
- In Kyu Park
  [Professor, Non-viral Gene Therapy, Biomedical Engineering, pik96d@gmail.com]
- Chang Ho Lee
  [Associate Professor, Biomedical optical imaging, Multimodal imaging, Molecular imaging, ch31037@jnu.ac.kr]
- Keun Bae Lee
  [Professor, Foot &Ankle, Fracture & Trauma,

Sports Medicine, kbleeos@jnu.ac.kr]

- Sujeong Jang
  [Assistant Professor, Stem cell, Molecular biology, Neurophysiology, sujeongjang@jnu.ac.kr]
- Koh, Jeong-Tae,
  [Professor, Department of Pharmacology and Dental Therapeutics, jtkoh@jnu.ac.kr]
- Kook, Min-Suk,
  [Professor, Department of Oral and Maxillofacial Surgery, omskook@jnu.ac.kr]
- Kim, Min-Seok,
  [Professor, Department of Oral Anatomy, greatone@jnu.ac.kr]
- Kim, Young,
  [Associate Professor, Department of Oral Pathology, youngkim2017@jnu.ac.kr]
- Kim, Ok-Jun,
  [Professor, Department of Oral Pathology, js3894@jnu.ac.kr]
- Kim, Won-Jae,
  [Professor, Department of Oral Physiology, wjkim@jnu.ac.kr]
- Park, Sang-Wook,
  [Associate Professor, Department of Oral Biochemistry, swpark@jnu.ac.kr]
- Park, Yeong-Joon,
  [Professor, Department of Dental Materials, yjpark@jnu.ac.kr]
- Song, Ho-Jun,
  [Professor, Department of Dental Materials, songhj@jnu.ac.kr]
- Oh Min-Hee,
  [Associate Professor, Department of Orthodontics, ohmh@jnu.ac.kr]
- Ohk, Seung-Ho,
  [Professor, Department of Oral Microbiology, shohk@chonnam.ac.kr]
- Park, Sang-Won,
  [Professor, Department of Prosthodontics, psw320@jnu.ac.kr]
- Yun, Kwi-Dug,
  [Professor, Department of Prosthodontics, ykd@jnu.ac.kr]
- Lee, Bin-Na,
  [Associate Professor, Department of Conservative Dentistry, wishwishu@jnu.ac.kr]
- Lee, Tae-Hoon,
  [Professor, Department of Oral Biochemistry, thlee83@jnu.ac.kr]
- Jung, Ji-Yeon,
  [Professor, Department of Oral Physiology, jjy@jnu.ac.kr]
- Cho, Jin-Hyoung,
  [Professor, Department of Orthodontics, jhcho@jnu.ac.kr]
- Hwang, Yun-Chan,
  [Professor, Department of Conservative Dentistry, ychwang@jnu.ac.kr]
- Hwang, In-Nam,
  [Professor, Department of Conservative Dentistry, hinso@jnu.ac.kr]

Interdisciplinary Program of Perfume and Cosmetic

Contact Information
Phone: +82-62-530-5808
Fax: +82-62-530-5810
URL: http://dent.jnu.ac.kr

Graduate Studies in the Interdisciplinary Program of Perfumes and Cosmetics

It aims to cultivate professional manpower to lead the Perfume and Cosmetics industry by acquiring the expertise necessary for the industry.

Degree Requirements

The length of coursework for graduate programs shall be 2 years or more for the master's degree program, 2 years or more for the Ph.D. Program, and 4 years or more for the joint/integrated master's and Ph.D. degree program.

Master's degree candidates are required to earn 24 graduate credits (minimum of 9 credits in this department) and Ph.D. candidates are required to earn 36 graduate credits (minimum of 12 credits in this department). Students may not take more than 10 credits a semester. A grade of C or better is acceptable in the master's degree program, and a grade of B or better in the Doctoral Program.

What Do You Study?

Transepidermal drug delivery
Surface science
Advanced Biopolymer
Selected topics in Biochemical Engineering
Polymer gel
Instrumental Analysis
Advanced Course of Instrumental Analysis
Functional Polymers
functional cosmetics
Advanced Nono Biotechnology
polysaccharide
Protein Engineering
Toxicology
Microcapsule
Hair science
Hair coloring
Hair cosmetics
Microbiology
Bioelectronics engineering
Power Technology
Advanced Course for Color Science
biosurfactants
Physiology
Advanced Bioreaction Engineering
Advanced Bioseparation & Purification
Advanced Bioanalysis
Bioconversion Engineering
Biodegradable polymer
Advanced Biopolymers
Advanced Biomaterials
Advanced Biochemistry
Cellular Genetics
Consumer research
Pharmacology

Advanced Drug Delivery
Drug Delivery
Research Training 1
Research Training 2
Research Guidance 1
Research Guidance 2
Research Guidance 3
Instrumental Analysis for Organic Molecules
Medicinal Chemistry
natural ingredient
Advanced Carbohydrate Materials
Surface Science

Introduced dermatology
Advanced dermatology
Synthetic chemistry
Fragrance
Cosmetic formulation
Introduced cosmetology
Cosmetic rheology
Cosmetic regulation
Cosmetics ingredients
Cosmetic safety evaluation
Cosmetic evaluation

■ Professors

- Ohk, Seung-Ho,
  [Professor, Department of Oral Microbiology, shohk@chonnam.ac.kr]
- Ji, Taek-soo,
  [Professor, Electronic Engineering, tji@chonnam.ac.kr]
- Kim, Il-cheol,
  [Professor, Functional Genomics, ickim@chonnam.ac.kr]

Electronic Communication Engineering

Contact Information
Phone: +82-61-659-7230
E-mail: llubin@jnu.ac.kr
URL: http://ece.jnu.ac.kr

Graduate Studies in Electronic Communication Engineering

The Department of Electronic Communication Engineering provides education that will prepare students to be the backbone of this localizing/globalizing society. Students will fully understand the electronic communication development process, and utilize state-of-the-art equipment as well as computer simulations that will develop their creative skills and get them accustomed to the working environment.

Degree Requirements

Both master's and Doctoral Programs are normally completed in 2 years. Students wishing to complete the programs in shorter durations are required to earn the necessary credits (24 for a master's and 36 for Ph.D.) and achieve a grade point average of at least 4.3 (out of 4.5). They will also need to obtain the recommendation of their academic adviser and pass the thesis qualification exam.

What Do You Study?

Digital Signal Processing
Optimization Theory
Sensor Engineering
Acoustic Engineering
Piezoelectric Ceramic Application Technique
Principles of Underwater Sound Communication
Satellite Communication System
Microwave and Millimeter Wave Engineering
Microwave Circuit Design
Advanced Wave Engineering
Theory and Application of Antenna
Microwave Communication System
Instrumentation Engineering
VLSI Digital Signal Processing Systems
Design of Digital Integrated Circuits
Digital Design
Computer Networks
VLSI Design Automation
Design of Data Converters
Advanced Circuit Theory
Advanced Data Communications
Advanced Mobile Communication Systems
SmartGrid
Deep Learning and Its applications

Professors

- Ki-Ryang Cho, Ph.D.
  [Professor, Optimization, krcho@jnu.ac.kr]
- Seung-yeop Rhee, Ph.D.
  [Professor, Microwave Engineering,

ysrsy@jnu.ac.kr]

• Han-Seung Jang, Ph.D.
[Associate Professor, IoT & Machine-to-Machine Communications, Smart Grid, hsjang@jnu.ac.kr]

• Dae-Ik Kim, Ph.D.
[Professor, Integrated Circuit Design, daeik@jnu.ac.kr]

■ Laboratories

- Electronic Measurement Lab
- Communication Engineering Lab
- Electronic Circuit Lab
- Electrical and Electronic Lab
- Hyper connected intelligent Wireless communication Lab

Department of Computer Engineering

Contact Information
Phone: +82-61-659-7250
Fax: +82-61-659-7259
E-mail: sng_j@jnu.ac.kr
URL: http://webgs.jnu.ac.kr

■ Graduate Studies in the Department of Computer Engineering

Leading the information-oriented society, computers are playing a major role in scientific calculation as well as computer communication, office automation, design automation, and artificial intelligence, all of which are crucial to future industry. In order to nurture computer-related human resources, the Department of Computer Engineering offers subjects in computer programs, digital systems, computer structure, databases, computer graphics, artificial intelligence, pattern acknowledgement, embedded systems, SOC design, data communication, and networks.

■ Degree Requirements

Both master's and doctoral programs are normally completed in 2 years. Students wishing to complete the programs in shorter durations are required to earn the necessary credits (24 for master's and 36 for Ph.D.) and achieve a grade point average of at least 4.3 (out of 4.5). They will also need to obtain the recommendation of their academic adviser and pass the thesis qualification exam.

■ What Do You Study?

Required Course

Research for Master's and Doctor's Degree

Major Courses

Multimedia System Design
Parallel Processing Architecture
Interconnection Network System
Advanced Computer Graphics
Advanced Image Processing
Advanced Artificial Intelligence
Soft Computing
Digital Integrated Circuits
Advanced Data Communication
Advanced Operating System
Advanced Database
Digital Signal Processing
Advanced Multimedia
Computer Vision
Advanced Pattern Recognition
Artificial Intelligence Application
VLSI System Design
Advanced Multi Processor Architecture
Advanced 3D Graphics
Graphics Modeling
Embedded System Design
Advanced Pattern Recognition
Artificial Intelligence Application
Embedded software applications
Advanced Real Time Communication Systems
Multimedia Computer Architecture
Advanced Computer Vision
Medical Image Processing Systems
Embedded Software

Mobile Communication
Wide Band Communication Networks
Advanced Optimization Methodology
Advanced in Machine Learning
Advanced Embedded System Architecture
Data Mining Methodology
Advanced Data Mining
Data Science
Advanced Distributed Processing
Big Data Special Theory
Internet of Things
Introduction to Sensor Network
Advanced Algorithm
Research Traning 1, 2
Hospital Information Communication
Artificial Intelligent Robotics
Advanced to embedded system
Embedded system programming
Advanced topics in Embedded system programming
Next Generation Mobile Communication
Regression Analysis
DSP Specials
R Data Analysis
Advanced R Data analysis
Introduction to Information Security

■ Professors

• .Kang-Chul Kim. Ph.D
[Professor, VLSI Design, kkc@jnu.ac.kr]
• Chang-Gyoon Lim. Ph.D
[Professor, Artificial Intelligence, cglim@jnu.ac.kr]
• Gwang-Jun Kim. Ph.D
[Professor, Computer Communication, kgj@jnu.ac.kr]
• Tai-hoon Kim. Ph.D
[Professor, Cyber security, taihoonn@jnu.ac.kr]

■ Laboratories

- High Performance Computer Lab
- Embedded System Lab
- Computer Application Lab
- Real-time Communication Lab

Electrical and Semiconductor Engineering

Contact Information
Phone: +82-61-659-7310
Fax: +82-61-659-7319
E-mail: 2song2@jnu.ac.kr
URL: http://webgs.jnu.ac.kr

Graduate Studies in Electrical and Semiconductor Engineering

The Department of Electrical and Semiconductor Engineering is focused on research and development in specific fields, such as power systems, semiconductor and VLSI engineering, power electronics, vision and computer engineering, and automatic controls and mechatronics.

Degree Requirements

Master's candidates are required to earn 24 credits (15 credits in electrical and semiconductor engineering). A maximum of 9 credits (earned up to 5 years from the time of enrollment) may be transferred into the program from other graduate schools. Transfer credits are determined by the Department. Master's candidates are required to publish a minimum of one conference paper and one academic society paper. The student's academic advisor is selected by the Department.

What Do You Study?

Required Course
Research for Master's or Doctoral Degree
Major Courses
Advanced DSP
Motion, Tracking and Stereo Vision
VLSI Circuit Design
Emotion Engineering
Advanced Robust Control
Robot and Machine Vision
Advanced Microprocessor
Reliability Engineering of Power System
Stability Engineering of Power System
Power Electronics Systems
Advanced Power Electronics
Power Electronics Project
Analysis of Power Electronics Circuit
Advanced Engineering Electromagnetics
Advanced Electronic Display Engineering
Advanced Electronics
Advanced Information Security
Probability Stochastic Process Theory
Advanced Probability Control
Network Analysis and Synthesis
Advanced Matrix Converter
Multimedia Digital Signal Processing
Thin Film Engineering
Semiconductor Process
Advanced Semiconductor Engineering
Semiconductor Physics
Advanced Non-linear Control Theory
Industrial Safety Engineering
Advanced Solid Electronic Device Engineering
Advanced Optoelectronics Engineering
Advanced Nano Integrated Circuit Engineering
Neuro Computing
Advanced Digital Image Processing
Digital Control Engineering Regulation
Biometrics System

Advanced Linear Control Theory
Plant Diagnosis Theory
Sensor Engineering
Renewable Energy System
Dielectric Engineering
Adaptive Control Engineering
Advanced Electrical Machinery
Economic Engineering of Power System
Data Science
Data Engineering
Deep learning application
Advanced Power System Engineering
Power System Simulation
Power System Operation
Intelligent Control Engineering
Advanced Intelligent System
Automatic Engineering Study
Green Energy Engineering
Advanced Chaos Engineering
Advanced Chaos Control and Synchronization
Advanced Pattern Recognition
Fuzzy-neuro Control Theory
Advanced Plasma Engineering
Advanced Modern Control
Circuit Design and Simulation

■ Professors

- Nam-Sup Choi, Ph.D.
  [Professor, Power Electronics, nschoi@jnu.ac.kr]
- Buhm Lee, Ph.D.
  [Professor, Power Systems, buhmlee@jnu.ac.kr]
- Yang-Hee Joung, Ph.D.
  [Professor, VLSI, Materials, jyanghee@jnu.ac.kr]
- Young-Chul Bae, Ph.D.
  [Professor, Chaos Synchronization, ycbae@jnu.ac.kr]
- Kyoung-Min Kim, Ph.D.
  [Professor, Vision and Signal Processing, kkm@jnu.ac.kr]
- Seong-Jun Kang, Ph.D.
  [Professor, VLSI,Processing and Design, sjkang@jnu.ac.kr]

■ Laboratories

- Power Electronics Lab
- Automatic Controls Lab
- Power Systems Lab
- Semiconductor and VLSI Lab
- Non-linear Dynamics Lab
- Signal Processing and Computer Vision Lab
- VLSI Processing and Design Lab

Department of Mechanical Design Engineering

__Contact Information
Phone: +82-61-659-7280
E-mail: dbstjd0504@jnu.ac.kr

■ Graduate Studies in Mechanical Design Engineering

The Department of Mechanical Design Engineering trains students in industrial technology theory and application methods. The Department fosters creativity and critical thinking amongst its students, in terms of mechanical engineering as the center of advanced technology. Graduates serve as prominent figures in government agencies and research institutions, servicing a broad range of important industries.

■ Degree Requirements

Master's candidates are required to earn 24 credits and successfully complete a research project. Ph.D. candidates are required to earn an additional 36 credits and successfully complete a research project.

■ What Do You Study?

Boundary Layer Theory
Advanced Measurements Engineering
Structural Vibration
Advanced Machine Design
Materials for Machines
Computational Turbulence Modelling
Turbulence
Convestive Heat Transfer
Advanced Dynamics
Macromachine
Radiation Heat Tansfer
Composite Materials
Machanicsof Composite Materials
Noiseand Vibration Engineering
Numerical Control
Theory of Shell
Experimental Methodsin Thermal Engineering
Energy Conversion Engineering
Research Training 1
Research Training 2
Advanced Combustion Engineering
Continuum Mechanics
Thermal System Design
Advanced Thermal Engineering
Heat Power
Advanced Thermodynamics
Advanced Heat Transfer
Advanced Fluid Mechinery
Advanced Fluid Machanics
Finite Element Method
Applied Mathematics
Transport Phenomena
Advanced Automatic Control
Mechanical Behaviorof Materials
Computational Fluid Dynamics
Numerial Stresses Analysis
Radiation Heat Transfer
Optimal Design
Theory of Elasticity
Fracture Machanics
Theory of Plates
Application of Image
Energy and Environment

■ Professors

- Sang-Kyoo Park, Ph.D.
  [Professor, Fluid Engineering and Turbulence, psk@jnu.ac.kr]
- Seung-Uk Ko, Ph.D.
  [Professor, Dynamics Control and Biomedical, kos2@jnu.ac.kr]
- Young-Wan Kim, Ph.D.
  [Professor, Mechanical Design and Mechanics of Composite Materials, wannkim@jnu.ac.kr]
- Ki-Seong Kim, Ph.D.
  [Professor, Heat and Particle Imaging Velocimeter, sngkim@jnu.ac.kr]
- Sang-Hun Kim, Ph.D.
  [Assistant Professor, Applied solid dynamics, shkim83@jnu.ac.kr]

■ Laboratories

- Hydrodynamic Lab
- Mechanical Design Lab
- Thermal Engineering Lab
- Applied Mechanics Lab
- Mechatronics Lab
- Modeling and Simulation Lab

Department of Mechanical System Engineering

Contact Information
Phone: +82-61-659-7220
Fax: +82-61-659-7229
E-mail: dj3220@jnu.ac.kr
URL: http://mechauto.jnu.ac.kr/

■ Graduate Studies in Product Mechanical Engineering

Our graduate school deals with academic fields that are based on mechanical engineering. It can be applied from design to manufacture of mechanical systems in various applications. In order to improve the competence of education in a more qualitative way, we develop detailed majors such as thermodynamics, fluid engineering, destructive and vibration, control measurement, and friction, etc. We are also actively conducting research activities by participating in various industry-academia-research projects. It inspires creative solutions to problems faced in the technical field and provides opportunities to apply theories to practice. Thus, we aim to cultivate talented prospect engineers who can play a pivotal role in the field of mechanical engineering in industrial fields and research institutes. And it helps to creatively solve problems in the future high-tech industry by equipping them with theoretical and practical application skills for mechanical engineering

■ Degree Requirements

Master's candidates are required to earn 24 credits and successfully complete a research project. Ph.D. candidates are required to earn an additional 36 credits and successfully complete a research project.

■ What Do You Study?

Research for Thesis
Advanced Dynamics
Advanced Vibration Theory
Advanced Solid Mechanics
Experiment for Stress Analysis
Advanced Combustion Engine
Advanced Fluid Mechanics
Applied Numerical Method of Engineering
Advanced Automatic Control
Advanced Working Machine
Tribology
Advanced Numerical Dynamics
Advanced Vehicle Dynamics
Finite Element Analysis
Advanced Figure Mechanical Behavior
Strength Design of Automotive Component
Advanced Thermodynamics
Advanced Heat Transfer
Advanced Mechatronics
Mechanical Instrumentation Theory and Application
Advanced Manufacturing
Special Machining

■ Professors

• Kyung-Jo Park, Ph.D.
[Professor, Dynamics and Vibration, kjpark40@jnu.ac.kr]
• Chung-Youb Kim, Ph.D.
[Professor, Solid Mechanics, kimcy@jnu.ac.kr]
• Hei-Cheon Yang, Ph.D.
[Professor, Thermal and Fluid Engineering, hcyang@jnu.ac.kr]
• 5Hoon Kim, Ph.D.
[Professor, Mechanics Control and Measurements, khoon97@jnu.ac,kr]
• Bong-Ho Moon, Ph.D.
[Professor, Tribology, mbh@jnu.ac.kr]

■ Laboratories

- Dynamics Lab
- Mechanics of Mechanics Lab
- Multiphase Flow Lab
- Production Engineering Lab
- Control System Instrumentation Lab

Department of Smart Plant Engineering

__Contact Information
Phone: +82-61-659-7710
Fax: +82-61-659-7710
E-mail: rhwl58@jnu.ac.kr

■ Graduate Studies in Smart Plant Engineering

Smart plants are defined as infrastructure and process automation plants that incorporate information and communication technology (ICT) technology into existing plants to manage real-time process data, events, and provide instant access to critical real-time data.

Smart plants can automate maintenance tasks and equipment management, promote systematic and efficient data management, and create knowledge-based plant services based on this. It also enables plants to achieve integrated digital engineering throughout their entire life cycle, which can maximize plant industry profits by reducing costs and increasing efficiency.

The goal is to create integrated, advanced workforce for smart plants that leverage intelligence element technologies for real-time operation monitoring, facility management/maintenance, process foresight diagnosis, and operation optimization.

■ Degree Requirements

Master's candidates are required to earn 24 credits and successfully complete a research project.

■ What Do You Study?

Advanced MEMS
Advanced microprocessor
Advanced design of product system
Advanced embedded system design
Advanced Computer Vision
Advanced plant mechanical design
Advanced plant data mining
Advanced plant power system
Advanced plant deep learning
Advanced plant big-data analysis
Advanced digital circuit engineering
Advanced mechatronics
Advanced Non-destructive Examination Engineering
Advanced Numerical Analysis
Advanced analog circuit engineering
Advanced actuator engineering
Research Guidance 1
Research Guidance 2
Research Guidance 3
AI plant system and experiment
Advanced plant structural dynamics
Advanced plant base AI
Advanced plant robotics
Advanced plant piping engineering
Advanced plant sensor engineering
Design and experiment of plant system
Advanced plant material mechanics
Advanced plant control engineering
Advanced plant vibration engineering

■ Professors

- Kang Chung, Ph.D.
  [Professor, Noise and Vibration Engineering, Numerical Analysis and Structural Vibration, ckang@jnu.ac.kr]
- Kyung-Jo Park, Ph.D.
  [Professor, Dynamics and Vibration, kjpark40@jnu.ac.kr]
- Young-Wan Kim, Ph.D.
  [Professor, Mechanical Design and Mechanics of Composite Materials, ywkim@jnu.ac.kr]
- Sang-Hun Kim, Ph.D.
  [Associate Professor, Applied solid dynamics, shkim83@jnu.ac.kr]
- Yang-kyu Park, Ph.D.
  [Associate Professor, Micro actuator & sensor, yangkyu.park@jnu.ac.kr]

■ Laboratories

- Applied mechanics Dynamics
- Machine design Lab
- Dynamics Lab
- Simulate Applied Solid Dynamics Lab
- Micro actuator & sensor Lab

Department of Refrigeration and Air-Conditioning Engineering

Contact Information
Phone: +82-61-659-7270
Fax: +82-61-659-7279
E-mail: refaircon@jnu.ac.kr
URL: http://refri06.jnu.ac.kr

■ Graduate Studies in Refrigeration & Air-Conditioning Engineering

The Department of Refrigeration and Air-Conditioning Engineering aims to cultivate quality human resources in the field of refrigeration and air conditioning, development of heat exchangers and energy-saving machines, cryogenics, utilization of natural energy, and food refrigeration. There have been numerous research projects led by the Department's faculty members and involving numerous graduate students.

Scholarships are available for selected students along with opportunities to attend domestic and international conferences where students can learn about new research and developments in their respective fields and learn how to present themselves in international environments.

The Department of Refrigeration and Air-Conditioning Engineering provides graduate student exchange programs lasting from a month to a year with overseas universities including ACRC at the University of Illinois in the USA, and the Departments of Mechanical Engineering at the University of Tokyo and University of Waseda in Japan.

These exchange programs allow students a chance to improve their research skills and expand their experience with international researchers. Upon finishing a master's or Ph.D. Program, graduates are expected to contribute significantly to research and development on a national and global scale.

■ Degree Requirements

Master's candidates are required to earn 24 credits while Ph.D. candidates must earn 36 credits. Students are able to select their courses upon consulting their academic advisor.

As a general rule, graduate students are limited to earning 9 credits per semester, up to 2 semesters per year. Students who have transferred from other graduate schools may transfer up to 9 credits and 12 credits for master's and Ph.D. programs, respectively.

Master's and Ph.D. degree candidates subbit coursework, including the Korean language proficiency examination.

The Department encourages all students to present and publish research papers at international conferences and in journals.

Master's degree candidates have their theses assessed by three examiners while Ph.D. theses are assessed by five examiners.

Two of the five Ph.D. thesis examiners are from external organizations. Applicants are encouraged

to select their supervisors by contacting faculty are required to pass one foreign language exam. Graduate students must pass examinations upon completing all members at Chonnam National University directly.

■ What Do You Study?

- Advanced Building Environmental Engineering 1, 2
- Advanced Air Conditioning 1, 2
- Advanced Engineering Mathematic 1, 2
- Advanced Air Conditioning Plan
- Advanced Air Conditioning Equipment and Design 1, 2
- Advanced Refrigeration Fluid Engineering 1, 2
- Advanced Refrigeration Equipment and Design 1, 2
- Research for Master's or Doctoral Degree
- Advanced Ship Refrigeration
- Advanced Noise Engineering
- Advanced Numerical Analysis
- Advanced System Optimal Design
- Advanced Food Freezing 1, 2
- Advanced Energy Utilizing Engineering 1, 2
- Advanced Energy
- Advanced Thermal Engineering 1, 2
- Advanced Heat Exchanger and Design 1, 2
- Advanced Thermal Engineering 1, 2
- Advanced Sanitary Provision 1, 2
- Advanced Fluid Engineering 1, 2
- Advanced Two-phase Flow 1, 2
- Advanced Automatical Control
- Advanced Material Engineering 1, 2
- Advanced Low Physical Properties Engineering 1, 2
- Advanced Cold Chain 1, 2
- Advanced Numerical Fluid Mechanics 1, 2
- Advanced Control Measurements Engineering
- Advanced Vibration Engineering
- Advanced Ultra Cryogenics Engineering 1, 2

■ Professors

- Min-Young Kim, Ph.D.
  [Professor, Food Refrigeration Engineering, kmy@jnu.ac.kr / +82-11-623-6081]
- Ki-Won Park, Ph.D.
  [Professor, Air Conditioning Engineering, pkw@jnu.ac.kr/ +82-10-3834-3274]
- Young-Woo Shin, Ph.D.
  [Professor, Mechanical Engineering, (Material Forming), shin5381@jnu.ac.kr/+82-10-3785-3254]

■ Laboratories

Laboratories

The Department of Refrigeration and Air conditioning Engineering has many Laboratories including the Refrigeration Engineering Lab, Heat Engineering Lab, Energy Engineering Lab, Air Conditioning Lab, Control and Instrumentation Engineering Lab, Food Refrigeration Lab, and Thermal and Fluid Engineering Lab.

Heat Engineering Lab

The Heat Engineering Lab provides experimental equipment and measuring devices for heat transfer research. The research includes flow patterns and heat transfer characteristics of boiling and condensation inside micro/mini channels, heat transfer enhancement technology and effective heat exchanger design and development, heat transfer

characteristics and energy consumption used in cryogenics refrige- ration, analysis of insulation performance, special quality of heat fluids, and energy saving studies.

Energy Engineering Lab

The Energy Engineering Lab provides students with energy conversion machines and measuring equipment for energy engineering research. Research in this lab includes district heating and cooling equipment, cogeneration systems, energy diagnosis of building and estimation of heat loss, development of new and potential energy, development of waste heat collection technology, energy saving operations, development of high efficiency heat pump systems, estimation of heat source and propriety examination, and solar energy studies.

Air Conditioning Lab

The Air Conditioning Lab provides experimental equipment for air-conditioning system research.

Topics studied in the Lab include comfort air and indoor environment control, building development, energy saving appliances, air and earth environment

Refrigeration Engineering Lab

The Refrigeration Engineering Lab provides students with sophisticated experimental and measurement equipment, used for drop-in testing of alternatives, pure and mixture refrigerants, development and improvement of various refrigeration cycles, cryogenics equipment, improvements protections, plumbing flow characteristic estimations, indoor heat environment assessments, heat storage air-conditioning systems, weather condition standardization for air-conditioning equipment, and windows air circulation development.

Control and Instrumentation Engineering Lab

The Control and Instrumentation Engineering Lab offers control and instrumentation test devices for graduate students. Research is conducted on operation enhancement of system controls for food and beverages storage, air conditioning environment control, performance improvement of equipment controls, efficient use of refrigeration equipment, solutions for industry control systems, engineering numerical analysis, and computer applications.

Food Refrigeration Lab

The Food Refrigeration Lab is specifically designed for students wishing to conduct research in the field of food refrigeration technology.

Research is carried out in the fields of operation development of food storage and circulation system, physical and chemical characteristics of food at low temperature storage, heat properties of material changes of food at cryogenics conditions, heat transfer, cryogenics and super conduction utilities application, thermodynamics characteristics of food of freezing processes, thermal diffusions coefficients by thermal conduction model estimations, thermal properties measurement to estimate freezing time of food, controlled atmosphere (CA) storage, and development of after-ripening control systems.

Civil and Environmental Engineering

Contact Information
Phone: +82-61-659-7260
Fax: +82-61-659-7269
E-mail: twinwjh@jnu.ac.kr
URL: http://environ.jnu.ac.kr

■ Graduate Studies in Marine and Civil Engineering

Graduate programs in Marine and Civil Engineering aim to improve research activities in the fields of structuring engineering, geotechnical engineering, hydraulics, coastal engineering, transportation engineering, surveying and GIS toward enhancing industry productivity and preserving the natural environment. Quality engineers are produced by providing training in theory along with opportunities to apply this knowledge.

■ Graduate Studies in Environmental Engineering

Environmental Engineering focuses on identifying and understanding environmental problems and designing appropriate solutions. Major research areas include air pollution control, water and wastewater treatment, bioremediation, hazardous waste management, and pollution prevention. Environmental engineers have the technical and scientific knowledge to identify, monitor, design, build and operate systems that protect the environment from damage and correct existing problems. Environmental engineers typically work in consulting firms, industries, state and federal agencies, universities or waste treatment companies.

■ Degree Requirements

Master's Program

The graduate program aims at instruction of the highest level of academic theory and towards enhancing the research abilities of students. Applicants should have earned an undergraduate degree in good standing in an engineering discipline. Candidates from other backgrounds may be considered if they have suitable qualifications and interests. Master's degree candidates are required to earn a minimum 24 credit hours and submit a thesis based on a research project. These requirements should be fulfilled between two to three years of enrollment.

Doctoral Program

Ph.D. candidates undertake an individual research project under the general direction of a supervisor and prepare a dissertation presenting their work and findings. The dissertation, which is examined by at least 5 committee members, must make a substantial contribution to the scientific or engineering fields.

In addition, students are required to earn at least 60 credits in coursework including the credits already

earned for the master's degree as well as pass one foreign language exam. Degrees are conferred to those who fulfill the requirements between two to five years of enrollment.

■ What Do You Study?

Marine and Civil Engineering
Theory of Elasticity and Plasticity
Finite Element Method
Theory of Structural Stability
Advanced Prestressed Concrete
Advanced Reinforced Concrete
Structural Dynamics
Boundary Element Method
Earthquake Engineering
Reliability Engineering
Advanced Applied Mathematics
Design and Analysis of Special Structure
Theory of Optimum Design
Advanced Soil Mechanics
Advanced Foundation Engineering
Advanced Rock Mechanics
Advanced Ocean Soil Mechanics
Soil Improvement Method
Theoretical Soil Mechanics
Advanced Geodesy
Liquefaction of Soil
Ground Translation
Site Investigation and Reinforcement Techniques
Advanced Hydrodynamics
Advanced Hydraulics
Advanced Coastal Hydraulics
Advanced Hydrology
Coastal Hydraulic Models
Advanced River Engineering
Water Resource System
Advanced Coastal Engineering
Advanced Harbor Engineering
Advanced Study on Transportation Engineering
Transportation Policies
Transportation Planning and Economy
Traffic Engineering
Advanced Study on Intelligent Transportation Systems
Artificial Neural Networks
Advanced Photogrammetry
Advanced Remote Sensing
Advanced Geographic Information System
Research for Master's Degree or Doctoral Degree
Environmental Engineering
Advanced Water and Wastewater Treatment
Advanced Instrumental Analysis
Advanced Air Pollution Control Equipment Design
Modeling of Atmospheric Diffusion
Advanced Atmospheric Chemistry
Physical and Chemical Processes for Water and Wastewater Treatment
Special Topics in Pollutant Mixing
Advanced Industrial Gas Treatment
Advanced Industrial Wastewater Treatment
Advance Water Supply System Engineering
Biological Processes for Water and Wastewater Treatment
Noise Control Engineering
Hydrological Simulation
Advanced Water Quality Control and Management
Combustion Gas and Particle Control Engineering
Thermal System Design Engineering
Advanced Water Treatment Plants
Technique of Watershed Modeling
Fluid Flow and Heat Transfer Design Engineering
Advanced Hazardous Gas Treatment
Advanced Hazardous and Industrial Waste Treatment
Mobile Source Control Engineering
Advanced Soil Pollution Management
Advanced Integrate Waste Management Engineering
Advanced Waste Treatment Engineering
Advanced Wastewater Treatment

Advanced Sewage System Engineering
Design of Advanced Wastewater Treatment Plants
Maintenance and Operation of Wastewater Treatment Plants
Advanced Ocean Environmental Engineering
Environmental Economics
Environmental Toxicology
Advanced Environmental Hydraulics
Advance Environmental Hydrology
Numerical Analysis for Environmental Engineering
Advanced Environmental System Engineering
Advanced Environment and Combustion Engineering
Advance Environmental Organic Chemistry
Administration and Polices for Environmental Management

■ Professors

Environmental Engineering

- Byeong-Cheon Paik, Ph.D.
  [Professor, Water System and Microbiology, bpaik@jnu.ac.kr]
- Seong-Gyu Seo, Ph.D.
  [Professor, Air Pollution Engineering, seo@jnu.ac.kr]
- Eun Sik Kim, Ph.D.
  [Professor, Environmental Materials and Membrane Water Treatment, eskim@jnu.ac.kr]
- Min Jin Hwang, Ph.D.
  [Associate Professor, Industrial Environmental engineering, vip7080@jnu.ac.kr]
- Seong Yun Kim, Ph.D.
  [Assistant Professor, Water Quality engineering, seongyun.kim@jnu.ac.kr]

Biotechnology and Chemical Engineering

Contact Information
Phone: +82-61-659-7300, 7290
Fax: +82-61-659-7309, 7209
E-mail: jhb7025@jnu.ac.kr
URL: http://biotech.jnu.ac.kr,
http://chemeng.jnu.ac.kr

■ Graduate Studies in Biotechnology and Chemical System Engineering

The Department of Biotechnology and Chemical System Engineering is open to all students interested in pursuing further studies in the fundamental and applied aspects of biotechnology. The Department's aim is to educate a new generation of young scientists with fundamental knowledge and state-of-the-art research skills to harness the potential of biotechnology for the development of human society in ways harmonious with the natural environment. Both master's and Ph.D. programs are offered.

The Major of Chemical Engineering has the educational aim of studying manufacturing processes of chemicals and operations for the conversion of raw materials into final products, as well as to cultivate creativity and a challenging spirit toward new things. To reach this goal, the department presents a curriculum that centers on teaching the basics in mathematics, physics and chemistry, which stem from the basis of natural science and on helping students to experiment and practice. The spectrum of research and educational opportunities in our department also includes environmental engineering, chemical reaction engineering, particle technology, electrochemical engineering, biochemical engineering, semiconductor processing, polymer and material engineering, The major has produced engineers who have greatly contributed to the nation's industrial development as some of sophisticated experts in inorganic and organic industrial fields including petrochemicals, fertilizers, acid-alkali, rubber, synthetic ibers, biosensor, fine chemicals, ceramics and fine polymers.

■ Degree Requirements

Master's candidates are required to earn 24 credits and achieve a grade point average of 3.0 (based on a 4.5 scale). Ph.D. candidates are required to earn an additional 36 credits with a grade point average of 3.0 (based on a 4.5 scale). Graduate students must also pass a comprehensive examination in three subjects within a specific major as well as a foreign language examination. All students must successfully complete a thesis presentation and defense and provide all required documents to the thesis committee. The thesis must be submitted in English or Korean. The thesis advisor must be a faculty member within the Department.

■ What Do You Study?

Biotechnology
Advanced Botany (3)
Advanced Genetics (3)
Topics in Functional Food (3)
Topics in Bioreactor Engineering (3)
Topics in Fermentation Technology (3)
Bioresource Engineering (3)
Topics in Ecology (3)
Advanced Biochemistry (3)
Topics in Breeding (3)
Advanced Protein Engineering (3)
Protein Chemistry (3)
Advanced Immunology (3)
Topics in Microbial Engineering (3)
Advanced Microbiology (3)
Molecular Genetics (3)
Advanced Industrial Microbiology (3)
Advanced Bioseparation (3)
Advanced Cell Technology (3)
Advanced Food Engineering (3)
Ichthyology (3)
Special Topics in Genetic Engineering 2 (3)
Special Topics in Antioxidants (3)
Advanced Zoology (3)
Advanced Molecular Biology (3)
Advanced Cell Culture (3)
Advanced Food Biotechnology (3)
Special Topics in Culture Engineering (3)
Bioprocess Engineering (3)
Special Topics in Food Biotechnology (3)
Advanced Bioactive Material Fermentation Technology (3)
Special Topics in Breeding (3)
Special Topics in Marine Ecology (3)
Special Topics in Enzyme Technology (3)
Special Topics in Controlling Products (3)
Topics in Microbial Engineering 2 (3)
Advanced Microbial Physiology (3)
Radiation Biology (3)
Advanced Culture Engineering (3)
Advanced Biomembranes (3)
Special Topics in Genetic Engineering 1 (3)
Advanced Economic Botany (3)
Phycology (3)
Research for Master's or Doctoral Degree (1)

Chemical System Engineering
Elective Courses
Advanced Fine Chemical Process
Advanced Chemical Reaction Engineering
Advanced Chemical Engineering Thermodynamics
Advanced Polymer Chemistry
Advanced Fluid Mechanics
Advanced Physical Chemistry
Fluid Phase Equilibria
Advanced Process Control
Reaction Kinetics
Properties of Polymer
Adsorption Technology
Advanced Engineering Mathematics
Advanced Organic Chemistry
The Treatment of Hazardous Materials
Advanced Chemical Engineering Safety
Rubber Engineering
Advanced Polymer Synthesis
Catalytic Reaction Engineering
High Pressure Chemical Processes
Advanced Catalyst Engineering
Interfacial Phenomena
New Material Engineering
Advanced Reactor Analysis and Design
Process Analysis and Simulation
Properties of Gases and Liquids
Advanced Environmental Chemical Engineering
Polymer Rheology
Energy Engineering
C-1 Chemistry
Advanced Polymer Materials
Polymer Blend
Advanced Supercritical Fluids Engineer
Topics in Physical Chemistry

Advanced Chemical Engineering Materials
Advanced Nano and Bioengineering
Advanced Biochemical Engineering
Advanced Bioanalytical Chemistry
Advanced Biopolymer
Advanced Tissue Engineering

■ Professors

Biotechnology

- Jin-Man Kim, Ph.D.
  [Professor, Molecular Biology, jinmank@jnu.ac.kr]
- Seung-Hwan Yang, Ph D.
  [Professor, Cell Molecular Biotechnology, ymichigan@jnu.ac.kr]
- Byoung-San Moon Ph D.
  [Associate Professor, Stem cell engineering, bsmoon@jnu.ac.kr]

Chemical Engineering

- Youn-Sop Kim, Ph.D.
  [Professor, Polymer Chemistry, yskim1@jnu.ac.kr]
- Ho-Joon Seo, Ph.D.
  [Professor, Catalytic Reaction Engineering, hjseo@jnu.ac.kr]
- Hun-Soo Byun, Ph.D.
  [Professor, Thermodynamics and Separation Processes, hsbyun@jnu.ac.kr]
- Soon-Do Yoon, Ph.D.
  [Professor, Process and Control of Chemical Engineering Materials, yunsd03@jnu.ac.kr]
- Heon-Ho Jeong, Ph.D.
  [Associate Professor, Bio-application Engineering, jeonghh29@jnu.ac.kr]

■ Laboratories

- Genetic Resources and Molecular Biology
- Cell Culture Technology

Chemical Engineering

- Polymer Chemistry Lab
  ▪ Supervisor: Youn-Sop Kim
- Catalyst and Chemical Reaction Engineering Lab
  ▪ Supervisor: Ho-Joon Seo
- Supercritical Fluids Thermodynamics and Chemical Engineering Safety Lab
  ▪ Supervisor: Hun-Soo Byun
- Chemical Engineering Materials Preparation Process and Control Lab
  ▪ Supervisor: Soon-Do Yoon
- Bio-application Process Lab
  ▪ Supervisor: Heon-Ho Jeong

Department of Architecture

Contact Information
Phone : +82-61-659-7330
Fax : +82-61-659-7339
E-mail : msg3457@jnu.ac.kr
URL : adcnu.jnu,ac.kr

Graduate Studies in Architecture

The Department of Architecture aims to understand the basis of architectural development considering the background of architecture's comprehensive character, rapid innovation of technology, and recognition of various cultures and values. The department cultivates the ability to think critically and comprehensively among its students. In addition, students are encouraged to understand nature, society, and technology through studies in architecture.

Degree Requirements

Supervisors are assigned to students based on the preferences of both students and faculty members. Faculty members are limited to supervising up to 5 Master's degree candidates and 3 Ph.D. candidates. Faculty members may not teach more than 2 courses per semester with the exception of jointly taught courses. Students may earn up to 9 credits each semester. Master's degree candidates must earn a total of 24 credits, of which 12 must be from the Department. Ph.D. candidates are required to earn at least 18 credits from the Department.

Among the qualification tests for all graduate students will be a foreign language examination. Students will have to present a thesis plan before submitting the actual thesis. Supervisors will sit in on a thesis supervision committee 6 months prior to submission of a Master's degree thesis and 1 year before the submission of a Ph.D. thesis.

What Do You Study?

Computer-aided Architectural Design
Theory of Architectural Planning
Methodology of Architectural Planning
Theory of Architectural Space
Theory of Architectural Project
Theory of Architectural Design 4
Methodology of Architectural Design
Psychology of Architecture
Architectural Environment
Theory of Design‘s Valuation
Theory of Architectural Design 3
Methodology of Urban Design 2
Theory of Welfare Facility's Design
Theory of Waterfront
Theory of Medical Facility's Design
Japan and East History of Architecture
Theory of Education Facility's Design
Research for Master's Degree
Theory of Complex's Design
Theory of City Planning

Theory of Urban Design
Methodology of Urban Design 1
Theory of Architectural Beauty
Aesthetics of Architecture
Theory of Architectural Design 1
Theory of Architectural Design 2
Theory of Japan and East of Architecture
Theory of Garden's Design
Theory of Housing
Theory of Korea's Architecture
Theory of Modern Architecture

■ Professors

- Hyun-tae Kim, Ph.D.
  [Professor, Architectural Planning and Design, htkim@jnu.ac.kr]
- Joo-seong Jeong, Ph.D.
  [Professor, Architectural Planning and Design, jsjeong@jnu.ac.kr]
- Kum-ho Chung, Ph.D.
  [Professor, Architectural Planning and Design, kumho@jnu.ac.kr]
- Jun Taek Kim, Ph.D.
  [Professor, Architectural Design and urban Design, juntaek.kim@jnu.ac.kr]
- seungwan LIM
  [Professor, High Performance Design Lab, swl.gonsw@jnu..ac.kr]
- Jaehoon BAE
  [Professor, Steel Structures, Seismic design, skycity-bjh@jnu..ac.kr]
- sunhyung KIM
  [Professor, Architectural Planning, sunhyung.kim@jnu.ac.kr]

Department of Sustainable Architecture ICT Convergence

Contact Information
Tel: +82-61-659-7330
Fax: +82-61-659-7339
E-mail: msg3457@jnu.ac.kr

■ The Department's Goal: To achieve sustainable low-carbon construction education

- Digital Space Architecture Technology: Education focusing on virtual space design, aiming at education to build an online virtual metaspace and train experts in virtual design metacity construction, metaspace planning, and metaspace development in various architectural aspects.

- Low-Carbon Convergence Technology for Carbon Neutrality: The technology aims to develop low-carbon convergence technology in construction engineering. Social issues can also be solved by measures such as utilizing waste materials for carbon neutrality, developing functional new materials related to construction and applying them to building structures, employing structural systems to prevent natural disasters and developing storage devices, and preparing measures to reduce inter-floor noise and solving related difficulties. The department aims to train experts in convergence technology who can provide various solutions.

■ Degree Requirements

The Master's degree program

Master's degree applicants must meet all of the following requirements.

① Acquisition of 24 credits: Applicants for a master's degree must take 24 credits, including 12 credits from the Department of Sustainable Architecture ICT Convergence under the guidance of an advisor.

② Candidates must pass the comprehensive exam and foreign language test.

③ Submission of the thesis copy.

④ All requirements above must be met and the candidate must successfully defend the thesis before a thesis committee in order to graduate.

The Doctorate program

Doctoral degree applicants must meet all of the following requirements.

① Acquisition of 36 credits: Applicants for a doctoral degree must take these 36 credits, including 18 credits from the Department of Sustainable Architecture ICT Convergence under the guidance of an advisor.

② Candidates must pass the comprehensive exam and foreign language test.

③ Submission of the dissertation copy.

④ All requirements above must be met and the candidate must successfully defend the thesis before a thesis committee in order to graduate.

Integrated master's and doctorate program

Applicants for the combined master's and doctoral degree must meet all of the following requirements.

① Acquisition of 54 credits: Applicants for a doctoral degree must take these 54 credits, including 27 credits from the Department of Sustainable Architecture ICT Convergence under the guidance of an advisor.

② Candidates must pass the comprehensive exam and foreign language test.

③ Submission of the dissertation copy.

④ All requirements above must be met and the candidate must successfully defend the thesis before a thesis committee in order to graduate.

■ What Do You Study?

▮ Major in Department of Sustainable Architecture ICT Convergence

Theory of Architectural Space
Architectural Programming
Architectural Design Methodology
High-quality polymer materials
Urban Design Methodology
digital engineering
Theory of Waterfront Design
Tall building structures
the theory of elasticity
Understanding carbon neutrality and embodied carbon
Theory of Environment-Friendly Architecture
Sustainable Material Engineering
Digital Signal Processing
Principle of Urban regeneration
High-quality composite material
Structure Dynamics
Advanced finite element analysis
Programming data analysis
Theory of Urban Planning
Fracture Mechanics

■ Professors

- Chung Kum-ho
  [Professor, Architecture and Architectural Design, kumho@jnu.ac.kr]
- Kim Jun-taek
  [Professor, Architecture and Urban Design, juntaek.kim@jnu.ac.kr]
- Lim Seung-wan
  [Professor, High Performance Building Envelope Design, swl.gonsw@jnu.ac.kr]
- Bae Jae-hoon
  [Professor, Architectural Structure Engineering, skycity-bjh@jnu.ac.kr]
- An Hyo-sung
  [Professor, Material Science and Engineering, hyosungan@jnu.ac.kr]
- Kim Sang-hoon
  [Associate Professor, Building Structure Analysis and Mechanical Analysis, shkim83@jnu.ac.kr]
- Jung Young-jin
  [Associate Professor, Biomedical Signal Processing and Image Processing, yj@jnu.ac.kr]

Interdisciplinary Program of Biomedical Engineering (Department of Biomedical Engineering)

Contact Information
Phone: +82-61-659-7390
Fax: +82-61-659-7369
E-mail: richwj@jnu.ac.kr
URL: http://hme.jnu.ac.kr/

■ Graduate Studies in the Interdisciplinary program of Biomedical Engineering (Biomedical Engineering)

The '**Interdisciplinary program of biomedical engineering' at Chonnam National University** offers a unique educational experience that integrates principles from engineering, medicine, biology, and other related fields. This program is designed to equip students with a comprehensive skill set and knowledge base to address complex challenges in healthcare, medical research, and the development of innovative medical technologies.

■ Degree Requirements

The 'interdisciplinary program of biomedical engineering' at **Chonnam National University** is designed to provide students with a well-rounded education that combines engineering, medical sciences, and other related disciplines. The degree requirements for such a program are carefully structured to ensure that graduates possess a strong foundation in both theoretical knowledge and the practical skills necessary for addressing complex healthcare challenges. Below are the typical degree requirements for an interdisciplinary program of biomedical engineering:

The master's program requires the completion of 24 credits, while the doctoral program mandates the fulfillment of 36 credits. In addition, the integrated master's and doctoral program necessitates the accumulation of 54 credits for eligibility to receive the Ph.D degree

■ What Do You Study?

Advanced Sensor Engineering
Special Topic in Biomedical Engineering
Research Guidance 1
Research Guidance 2
Research Guidance 3
Radiation Detection for Medical Application
Advanced Radiation Medical Imaging Modalities
Neural Signal Processing
Special topics in data science
Special topics in artificial neural network in Biomedical Engineering
Biomedical VHDL Design
Ethics and technical writing
Biomedical Statistics
Big Data Analytics
Monte Carlo Simulation
Photosensor Applications for Medical System
Research Training 1
Research Training 2
Seminar in Biomedical

Special Topic in Biomedical Signal Processing
Industry-University Cooperation Project
Understanding of Healthcare Industry
Healthcare and Wellness
electroceuticals
Instrumental Analysis
Smart Theranotics
Advanced Cosmetic Science
Advanced Pharmaceutical Science
Advanced Immunology
Biomedical Microdevices
Motion Analysis
Digital Therapeutics
Neuromodulation
Time Series Analysis
AI & Rehabilitation Engineering
Computational Medical Imaging
Ergonomics
Digital Healthcare Seminar
Neural Engineering Seminar
Rehabilitaion Engineering Seminar
Motion Analysis Seminar
Advanced Brain Stimulation
Advanced Brain Engineering
Machine Learning and Neural Network
Advanced Biochemical Analysis
Clinical Electroencephalogram Analysis
Brain-Computer Interface
Dynamic Neuroimaging
MRI Physics
Advanced MRI Image Processing
AdvancedGenetics
AdvancedBiochemistry
AdvancedMicrobiology
SpecialTopicsinAntioxidant
AdvancedCellCulture
SpecialTopicsinFoodBiotechnology
SpecialTopicsinEnzymeTechnology
RadiationBiology
AdvancedMicroprocessor
AdvancedDigitalImageProcessing
DigitalControlEngineering
Advanced Nano Intergrated Circuit Engineering
Advanced Biomaterials
Advanced Tissue Engineering
Advanced Human Anatomy
Advanced Human Physiology
Nano-Bio Engineering
Physiological Modelin
Advanced Biomedical Signal Processing

■ Professors

- Chang-Moon Lee
  [Professor, Molecular Imaging and Therapy, Nanomedicine, Biomaterials, Drug Delivery System, cmlee@jnu.ac.kr]
- Jihoon Kang
  [Associate Professor, Medical Imaging System, jihoon.kang@jnu.ac.kr]
- Dowon Kim
  [Associate Professor, Neuroengineering, Biomedical Signal Processing, dowon.kim@jnu.ac.kr]
- KangJu Lee
  [Assistant Professor, Bio/micro medical devices, Micro/nano fabrication, Functional biomaterials, Regeneration applications, knjulee@jnu.ac.kr]
- Young-Jin Jung
  [Associate Professor, Biomedical signal and Image processing, Intelligent rehabilitation engineering, Brain engineering, yj@jnu.ac.kr]
- Bo Kyeong Yoon
  [Assistant Professor, Biosensor, Nanobiotechnology, Antibacterial agent, Antiviral agent, bkyoon@jnu.ac.kr]
- Hun-Soo Byun, Ph.D.
  [Professor, Thermodynamics and Separation Processes, hsbyun@jnu.ac.kr]
- Soon-Do Yoon, Ph.D.
  [Professor, Process and Control of Chemical Engineering Materials,

yunsd03@jnu.ac.kr]

- Jin-Man Kim, Ph.D.
  [Professor, Molecular Biology, jinmank@jnu.ac.kr]
- Seung-Hwan Yang, Ph D.
  [Associate Professor, cell technology, ymichigan@chonnam.ac.kr]
- Young-Chul Bae, Ph.D.
  [Professor, Chaos, Artificial Intelligence, Cyberphysical System (CPS), Instrumentation, and Automation, ycbae@jnu.ac.kr]
- Han-Seung Jang, Ph.D.
  [Assistant Professor, IoT & Machine-to-Machine Communications, Smart Grid, hsjang@jnu.ac.kr]
- Gin-Nae Ahn, Ph.D.
  [Associate professor,Marine Biotechnology, gnahn@jnu.ac.kr]

■ Laboratories

- Nano-biomedical Laboratory
- Medical Imaging Systems Laboratory
- Clinical Neuroengineering Laboratory
- Mediated Bio-Microfabrication Laboratory
- Intelligent Rehabilitation Engineering Laboratory
- Antimicrobial Biotechnology Laboratory
- Thermofluids Laboratory
- Chemical Process and Control Laboratory
- Biological Resources and Genetic Engineering Laboratory
- Cell Engineering Laboratory
- Control Systems Laboratory
- Hyper Connected Intelligent Wireless Communication Laboratory
- Functional Food and Pharmaceutical Material Laboratory

Department of English Language

Contact Information
Phone: +82-61-659-7510
Fax: +82-61-654-3512
E-mail: A0430@jnu.ac.kr
URL: https://english.jnu.ac.kr/sites/english/index.do

■ Graduate Studies in Department of English Language

The Department of English teaches English language skills necessary for scholarly research, and provides students with in-depth knowledge of a broad range of subjects in the fields of English linguistics and literature. Students can specialize either in English linguistics or British and American literature.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and foreign language exam as well as submit a thesis.

Ph.D. candidates are required to earn 36 credits and pass a comprehensive exam and foreign language exam. Students must also submit a dissertation. An academic advisor is appointed to each graduate student based on the student's interest and with the permission of the advising committee.

■ What Do You Study?

Research Guidance 1
Research Guidance 2
Research Guidance 3
Research Training 1
Research Training 2
English Grammar
Morpheme Semantics
Corpus Linguistics
Discourse Analysis
Seminar in English Phonetics
Introducing translation studies
History of English Phonological Theory
Eco criticism
Environments and English Poetry
General Linguistics
English Phonetics
English Morphology
English Semantics
Traditional Grammar
Theory and Practice of Translation
18-19th Century American and British Novel
18-19th Century American and British Poetry
Elizabethan Drama
History of Western Literary Criticism
Background of English Literature
History of the English Language
Contemporary English Syntax
Contemporary Semantics
Seminar in English Phonology
Seminar in British and American Poets Before 20th Century
Seminar in British and American Writers Before 20th Century
English Literature and Nature

English Literature and Films
History of English Literature
English Phonology
English Syntax
English Pragmatics
Psychological Linguistics
English Linguistics and Literature
Modern American and British Novel
Modern American and British Poetry
Modern American British Drama
Literature & Environment
Special Topics in English Syntax
Topics in Semantics
Special Topics in English Phonology
Modern British and American Poets
Modern British and American Writers
Comparative Literature
Topics on the Contemporary British and American Fiction
Seminar 1
Seminar 2
Seminar 3
Modern Critical Theory

■ Professors

- Young-Soon Cho, Ph.D.
  [Professor, English Semantics, ysncho@chonnam.ac.kr]
- Sung-Kap Yang, Ph.D.
  [Professor, English Poetry, yangtop@chonnam.ac.kr]
- Kwan-Young Oh, Ph.D.
  [Professor, English Phonology, okyoung@chonnam.ac.kr]
- Han-Nae Yu, Ph.D.
  [Associate Professor, Translation&Interpretation ambrosia14@gmail.com]

Department of International Commerce

Contact Information
Phone: +82-61-659-7530
Fax: +82-61-659-7539
E-mail: A4992@jnu.ac.kr
URL: http://trade.jnu.ac.kr

■ Graduate Studies in Department of International Commerce

Interdisciplinary Program of International Commerce

The graduate program in International Commerce offers education and research aimed at investigating the rapidly changing domestic and overseas business environment. The program cultivates specialized experts in international commerce.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits and pass a comprehensive exam and a foreign language exam as well as submit a master's thesis.

■ What Do You Study?

Advanced Corporate Finance Theory (3)
Seminar in Regional Studies (3)
Special Topics in Finance1 (3)
Special Topics in Finance2 (3)
Research Training 1 (3)
Research Training 2 (3)
Topics in Statistics (3)
Topics in International Marketing (3)
Topics in International Trade Theory (3)
Topics in Letter of Credit (3)
Topics in International Financial Management (3)
Topics in Foreign Direct Investment (3)
Topics in Overseas Regional Economics (3)
Topics in Economic Integration (3)
Topics in International Financial Derivatives (3)
Case Study on International Commerce (3)
Topics in Electronic Commerce (3)
International Trade Contract and Marine Insurance (3)
Case Study on Distribution and Logistics (3)
Topics in International Business Management (3)
Topics in Theory of Foreign Exchange (3)
Topics in International Business Strategy (3)
Topics in International Finance (3)
Topics in Multinational Enterprise (3)
Topics in Marketing Management (3)
Topics in Econometrics (3)
Topics in International Trade Policy (3)
Topics in International Resource and Environmental Economics (3)
Topics in Corporate Foreign Exchange Risk Management (3)
Topics in Commercial Practice of International Trade (3)
Topics in EDI (3)
Case Study on International Logistics (3)
International Negotiation and Foreign Commercial Custom (3)

■ Professors

• Cheol Lee, Ph.D.
[Professor, International Economics, clee1@jnu.ac.kr]
• Bok-jae Park, Ph.D.
[Professor, International Commerce, bjpark73@jnu.ac.kr]
• Gil-sung Kim, Ph.D.
[Professor, International Business, kikis@jnu.ac.kr]
• Young-moon Kang, Ph.D.
[Professor, International Commerce, wto3@jnu.ac.kr]
• Seok-gang Park, Ph.D.
[Assistant Professor, Strategic Management, parksg1214@jnu.ac.kr]

■ Laboratories

- Internet Trade Practice Lab
- Trade Incubator Lab

Department of Transportation and Logistics

Contact Information
Phone: +82-61-659-7340
Fax: +82-61-659-7359
E-mail: mihoe@jnu.ac.kr
URL: http://logistics.jnu.ac.kr

■ Graduate Studies in Department of Transportation and Logistics

Graduate studies in transportation examine issues such as traffic jams, accidents, and air pollution. The Department of Transportation and Logistics nurtures transportation experts able to resolve these types of problems.

Graduate studies in logistics aim to strengthen international competitiveness by strengthening logistics systems. The Department nurtures experts able to plan, design, and operate these types of logistics systems.

■ Degree Requirements

Ph.D. candidates must earn a total of 36 credits, while master's degree candidates must earn 24 credits. All students are able to earn up to 9 credits each semester. Students must also pass a comprehensive exam and a foreign language exam as well as submit a master's thesis.

An academic advisor is appointed to each graduate student based on the student's interest and with the permission of the advising committee.

■ What Do You Study?

Advanced Operation Research(3)
Research on Supply Management(3)
Research on Supply Chain Management(3)
Transportation economics Seminar(3)
Advnaced Transportation Planning(3)
Advanced Analysis of Traffic Flow(3)
Transportation Network Theory(3)
Advanced Database Management for Transportation and Logistics(3)
Estimation of Traffic Accident Cost(3)
Economic Evaluation for Transport Infrastructure Investment(3)
Seminar on Traffic Safety(3)
Advanced Capacity Analysis(3)
Seminar on Traffic Operations(3)
Advanced Study on Transportation Polices(3)
Advanced Traffic Control(3)
Global Logistics Seminar(3)
Advanced Study on NationalandRegionalPlanning
Advanced Public Transportation(3)
Advanced Theory of Urban Planning(3)
Urban Modeling Seminar(3)
UrbanLogisticsPlanningTheory(3)
Urban and Regional Economics(3)
Urban Disaster Prevention(3)
Research on Logistics Pricing Analysis(3)
Logistics Management Seminar(3)
research on Logistics cost Calculation(3)
Industrial Organization for Logistics(3)
Advanced Logistics Information System(3)
Logistics Polices Seminar(3)
Research on Logistics Accounting(3)

Advanced Material Handling(3)
Business Analytics(3)
Big Data Analytics(3)
Service Management Seminar(3)
Performance Management Seminar(3)
Transportation Planning Seminar(3)
Forecasting(3)
Research Training 1(3)
Research Training 2(3)
Research Guidance 1(3)
Research Guidance 2(3)
Research Guidance 3(3)
Strategic decision making(3)
Information Technology and Management Innovation(3)
Advanced Research Methodology(3)
Capstone Design(3)
Computer Simulation(3)
Application of Statistics(3)
Port Management Seminar(3)
Port Logistics Management(3)
Special Discussion on Freight Transportation(3)
Advanced Green Logistics(3)

■ Professors

- Byungin Park
  [Business Logistics,
  bipark@chonnam.ac.kr]
- Sang-Gu Kim
  [Traffic Operation,
  kim-sg@chonnam.ac.kr]
- Jong-Wook Bae
  [Logistics Systems,
  jwbae@chonnam.ac.kr]
- Chang-Hyun Kim
  [Logistics Information Systems,
  chkim@chonnam.ac.kr]
- Chang-Ho Choi
  [Freight Transportation,
  jc1214@chonnam.ac.kr]
- Seung-Sik Chin
  [Logistics Policy & Environment Logistics,
  shin2han@chonnam.ac.kr]

Department of Culture Contents

Contact Information
Phone: +82-61-659-7470
Fax: +82-61-659-7479
E-mail: parks@jnu.ac.kr
URL: https://ccd.jnu.ac.kr

Graduate Studies in Department of Culture Contents?

The graduate course covers the topics of content authoring and distribution. The purpose of the graduate studies is to provide highly qualified information technology (IT) professionals in the field of electronic commerce.

Degree Requirements

Master's degree candidates must earn 24 credits. All students are able to earn up to 9 credits each semester. Students must also pass a comprehensive exam and a foreign language exam as well as submit a master's thesis.

An academic advisor is appointed to each graduate student based on the student's interest and with the permission of the advising committee.

What Do You Study?

Advanced Research methodology (3)
Advanced Computation Theory (3)
Advanced Electronic Commerce Security (3)
Advanced Information Security (3)
Advanced Information Security (3)
Advanced Mobile Communication (3)
Advanced Multimedia Systems (3)
Advanced Operating Systems (3)
Advanced Web Programming (3)
Computer Vision (3)
Data Mining (3)
Decision Making Methodology (3)
Decision Making Seminar (3)
Digital Culture Business Seminar (3)
E-Business Management (3)
E-Business Strategy (3)
Image Pattern Recognition (3)
Machine Learning (3)
Project Research of Video Content (3)
Research Guidance1 (3)
Research of K-Content Trend (3)
Research Training1 (3)
Research Training2 (6)
RFID System Applications (3)
Security and Privacy (3)
Sensor Networks (3)
Software Development Management (3)
Special Topics in IS Research (3)
Special Topics in New Media Video Content (3)
Topics in Convergence Systems (3)
Topics in Culture Contents Planning (3)
Topics in Embedded Systems (3)
Topics in Graphic and Moving Image Processing (3)
Topics in Information Retrieval Systems (3)
Topics in Internet (3)
Topics in Mobile Systems (3)
Topics in Network Game (3)
Topics in Web Design (3)
Topics in Web Information Systems (3)

Professors

- Soon-Hee Han, Ph.D.
  [Professor, Compiler and Mobile Systems, shhan@jnu.ac.kr]
- Young-Man Kang, Ph.D.
  [Professor, Computer Network and Digital Broadcasting Systems, ymkang@jnu.ac.kr]
- Jun-Seok Lee, Ph.D.
  [Professor, MIS and Computer Games, iexpert@jnu.ac.kr]
- Min-Suk Yoon, Ph.D.
  [Professor, MS and IS, msyoon@jnu.ac.kr]
- Hee-Teak Ceong, Ph.D.
  [Professor, Distributed Systems and Multimedia, htceong@jnu.ac.kr]
- Yong-Min Kim, Ph.D.
  [Professor, Information Security and Electronic Commerce Systems, ymkim@jnu.ac.kr]
- Jeong-Seon Park, Ph.D.
  [Professor, Multimedia Programming and Pattern Recognition, jpark@jnu.ac.kr]
- Seung-Bong Park, Ph.D.
  [Professor, e-Business, parks@jnu.ac.kr]
- Won-Sik Jung, Ph.D.
  [Assistant Professor, Film and Digital Media, creator@jnu.ac.kr]
- In-Seop Na, Ph.D.
  [Associate Professor, Artificial Intelligence/Big Data Processing, ypencil@jnu.ac.kr]

Program of East Asia Studies

__Contact Information
Phone: +82-61-659-7580
Fax: +82-61-654-3560
E-mail: mengzi@jnu.ac.kr

■ Graduate Programs in the Department of East Asia Studies

The East Asian Studies Collaborative Program aims to nurture convergence-type high-level human resources that contribute to the realization of innovative growth in the era of the new industrial revolution with novel concepts. It also aims to foster high-quality human resources in the humanities and social sciences who can proactively respond to the paradigm shift in the era of the 4th industrial revolution.

The East Asian Studies Interdisciplinary Program seeks to nurture convergence-type talents related to East Asian regional studies. Therefore, we have established and are operating customized talent development curricula for each semester. Specifically, we have established and run curricula related to East Asian literature, East Asian history, East Asian philosophy, East Asian culture, East Asian tourism, and East Asian maritime culture. In particular, we plan to actively offer foreign language courses such as Chinese, English, and Korean tailored to the needs of foreign students.

■ Degree Requirements

- Doctoral course: Ph.D. candidates must earn a minimum of 36 credits.
- Students are required to pass both the qualifying examination and a foreign language examination.

■ What Do You Study?

East Asia Regional Studies Seminar(3)
East-West cultural exchange history Seminar(3)
East Asia Tea Culture Seminar(3)
East Asia Cultural Studies Seminar(3)
East Asian Cultural Thought(3)
History of East Asia marine culture(3)
Theory of Maritime thoughts(3)
Chinese Literature Seminar(3)
Chinese philosophy Seminar(3)
Chinese literature Selection Seminar(3)
Chinese Tea Culture and Healing Seminar(3)
Chinese culture Seminar(3)
Chinese Regional Studies Seminar(3)
Classical Chinese Literature Seminar(3)
Special Lecture on Linguistics(3)
Special Theory of Marine Informatics(3)
Storytelling and Cultural Tourism Seminar(3)
Culture & Philosophy(3)
Korean Cultural History(3)
Korean traditional culture(3)
Korean Thought History Seminar(3)
Korean Literature and modern culture(3)
Theory of Urban Tourism Seminar(3)
Geography of Tourism Seminar(3)
Theory of Culture Tourism Seminar(3)
Theory of Ocean diffusion(3)
Tourism and Culture Anthropology Seminar(3)
Humanistic Understanding of Tourism Seminar(3)
Cultural Arts and Tourism Seminar(3)
Venture of Management of Tourism Seminar(3)

Professors

- Won-Il Cho, Ph.D.
  [Professor, Chinese philosophy,mengzi@jnu.ac.kr]
- Young-Uk Um, Ph.D.
  [Professor, Chinese literature, uyu123@jnu.ac.kr]
- Jin-Hee Song, Ph.D.
  [Professor, Chinese linguistics, fu286599@jnu.ac.kr]
- Jun-Ho Kim, Ph.D.
  [Associate Professor, Tourism Management, joonho@jnu.ac.kr]
- Eun-Jeong Noh, Ph.D
  [Assistant Professor, Tourism Management, noheun@jnu.ac.kr]
- Hyo-Yeon Park, Ph.D.
  [Associate Professor, Tourism Management, hyopark@jnu.ac.kr]
- Jong-Kyu Kim, Ph.D.
  [Professor, Marine Culture & Engineering, kimjk@jnu.ac.kr]

Department of Culture and Tourism Management

Contact Information
Phone: +82-61-659-7640
Fax: +82-61-659-7649
E-mail: A0430@jnu.ac.kr
URL: http://ctm.jnu.ac.kr

■ Graduate Studies in Business Administration

The Department of Culture and Tourism Management promotes the revitalization of the local tourism industry, such as cultural tourism and MICE, and aims to nurture global creative talents who will contribute to the development of the tourism industry, which is attracting attention as a strategic industry for strengthening national competitiveness. Graduates of our major can be active as experts in the overall tourism field, such as cultural tourism and tourism management.

■ Degree Requirements

- Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.
- Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Advanced Study on Tourism Resources (3)
Tourism Big Data Analysis (3)
Forecasting Models in Tourism (3)
Tourism Strategy Seminar (3)
International Tourism Seminar (3)
Seminar of Tourism Human Resources Management (3)
Trade Fair Planning Seminar (3)
MICE Tourist Destination Marketing (3)
Incentive Industry Tourism Seminar (3)
Smart Tourist Behavior (3)
Methodology for Research (3)
Advanced Statistics (3)
East Asian Culture and Tourism (3)
Tea Culture Tourism Seminar (3)
Field Trip of Tea Culture Sites (3)
Appreciation and Criticism of Cultural Contents (3)
Special Lecture on East Asian Language (3)
Advanced Study on Urban Tourism (3)
Advanced Topics in Tourism Transportation (3)
Intelligent Transportation Management in Tourism (3)
Tourism Financial Management Seminar (3)
Franchise System Seminar (3)
Analysis of Festival & Event Cases (3)
Convention Management Strategy Research (3)
Current Issues on Mega Event (3)
Leisure Theory Seminar (3)
MICE Industry Partnership Seminar (3)
Basic Statistics (3)
Seminar on Convention & Tourism Applied Economics (3)
Cultural Anthropology Seminar (3)
Consumer Behavior in Tourism (3)
Tourism and Global Change (3)
Seminar on Service Management (3)
Qualitative Research Methodology of Tourism (3)
Research Methodology of Tourism (3)

Seminar on Tourism Market Research (3)
Seminar on Qualitative Research Methodology (3)
Tourism Marketing Theories (3)
Seminar on Tourism Marketing (3)
Sustainable Tourism (3)
Service Management (3)
Tourism Research Design (3)

■ Professors

• Dae Hyon Kim, Ph.D.
[Professor, Smart Tourism, Daehyon@jnu.ac.kr]
• Hyo Yeun Park, Ph.D.
[Associate Professor, MICE, hyopark@jnu.ac.kr]
• Won Il Cho, Ph.D.
[Professor, Philosophy, mengzi@jnu.ac.kr]
• Eun Jeong Noh, Ph.D.
[Assistant Professor, Marketing, noheun@jnu.ac.kr]
• Joon Ho Kim, Ph.D.
[Associate Professor, Strategy, joonho@jnu.ac.kr]
• Young Uk Um, Ph.D.
[Professor, Literature, uyu123@jnu.ac.kr]
• Jin Hee Song, Ph.D.
[Professor, Language, fu286599@jnu.ac.kr]

Interdisciplinary Program of Smart City

Contact Information
Tel: +82-61-659-7640
Fax: +82-61-659-7649
E-mail: daehyonkim@jnu.ac.kr
URL: http://webgs.jnu.ac.kr

■ Graduate Studies in the Smart City Interdisciplinary Program

The study of Smart Cities are an emerging field that focuses on the next-generation urban concept, where the Internet of Things (IoT) and Artificial Intelligence (AI) technologies are integrated into urban infrastructures, such as roads, ports, airports, and individual buildings. Its aim is to address various urban challenges of the 21st century, including transportation, energy, environment, and housing issues, while generating sustainable value.

This course educates students to respond to the rapidly evolving paradigm shift in urban development based on the basic knowledge of urban planning, architecture, and civil engineering acquired in undergraduate studies. In particular, the main goal of education is to nurture high-quality professionals with advanced technology expertise in the field of urban studies, such as IoT, AI, and big data, which are essential for realizing smart cities.

■ Degree Requirements

- Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.
- Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Smart City Introduction
Smart City Planning And Design
Smart Parking Design
Study on Smart City Act
Urban Economics
Urban and Regional Tourism Development
Urban Regeneration and Development Analysis
Smart Tourism
R Data Analysis
Data Mining
Transportation Planning And Economics
Transport Policy
Advanced Transportation Engineering
Intelligent Transport Systems
Maritime Intelligent Transport Systems
Advanced Artificial Intelligence
Artificial Neural Network
Application of Artificial Intelligence
Computer Vision
Advanced Image Processing
Advanced Remote Sensing
Advanced Photogrammetry

Advanced Geographic Information System
Internet of Things
Smart Mobile Communication
Medical Information Communication
IoT of Smart City
Multimedia System Design
Barrier-Free Urban Design
Architectural Design Methodology
Advanced Modern Architecture
Waterfront Design
Theory of Housing
Welfare Facility'S Design
System Engineering
Disaster Management Theory
Advanced Disaster Geographic Information
Advanced Coastal Engineering
Geodynamics
Advanced Port Engineering
Research Training 1
Research Training 2
Research Training 3

■ Professors

- Dae-Hyon Kim, Ph.D.
  [Professor, Culture & Tourism Management, daehyon@jnu.ac.kr]
- Kwang-Jun Kim, Ph.D.
  [Professor, Computer Engineering, kgj@jnu.ac.kr]
- Kyong-Uk Yang, Ph.D.
  [Professor, Power System Engineering, yangku@jnu.ac.kr]
- Hyun-Tae Kim, Ph.D.
  [Professor, Architectural Design, htkim@jnu.ac.kr]
- Joo-Seong Jeong, Ph.D.
  [Professor, Architectural Design, jsjeong@jnu.ac.kr]
- Jong-In Lee, Ph.D.
  [Professor, Civil Engineering, jilee@jnu.ac.kr]
- Dong-Yeob Han, Ph.D.
  [Professor, Civil Engineering, hozilla@jnu.ac.kr]
- Chang-Ho Lee, Ph.D.
  [Professor, Civil Engineering, changho@jnu.ac.kr]

Fisheries Science

Contact Information
Tel: +82-61-659-7160
Fax: +82-61-659-7169
URL: http://aqua.jnu.ac.kr

Graduate Studies in Fisheries Science

The aim of the Department of Fisheries Science is to contribute to the development of the nation and human society by advancing academic theories and applicable methods, and producing human resources with leadership and great creative talent. The Graduate School fosters excellent talent who will advance fisheries industries with professional knowledge. Students carry out theory and practice together, and study fishery, harbors, shipping and aquaculture. The Department of Fisheries Science consists of 2 majors: Marine Production Management, and Fishery Biology and Aquaculture.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam.

Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

What Do You Study?

Taxonomy Invertebrate (3)
Adhesion Biology (3)
Advanced Fisheries Oceanography (3)
Benthos Ecology (3)
Marine Invertebrate Zoology (3)
Aquafarm Environmental Ecology (3)
Endocrinology (3)
Advanced Developmental Biology (3)
Advanced Biochemistry (3)
Advances Cell Biology (3)
Advances Fish of Fresh Water Culture (3)
Advanced Marine Fish Culture (3)
Advanced Taxonomy Algal (3)
Trait and Group Genetics (3)
Breeding Technoscience (3)
Advances Algae Physiology Ecology (3)
Algae Cultivation Technoscience (3)
Island Biology (3)
Zooplankton Feed Biology (3)
Phytoplankton Feed Biology (3)
Advances Marine Invertebrate Seed Production (3)
Marine Restoration Ecology (3)
Marine Invertebrate Zoology Culture (3)
Advances Fish Seeds Production (3)
Advances Aqua System (3)
Advanced Science of Aquatic Resources (3)
Systematic Ichthyology (3)
Biology of Fish Larva (3)

Advanced Marine Ecology (3)
Fish Ecology (3)
Advanced Conservation Biology (3)
Biological Statistics (3)
Invertebrate Physiology Ecology (3)
Advanced Ichthyology (3)
Algal Culture Technoscience (3)
Advanced Agriculture and Fisheries Market Structure (3)
Advanced Food Economics (3)
Advanced Fisheries Administration (3)
Advanced Fisheries Law (3)
Fishing Ground Management (3)
Advanced Biology (3)
Fish Physiology (3)
Advanced Molecular Biology (3)

■ Professors

• Won Kyo Lee, Ph.D.
[Professor. Reproduction organism
wklee@jnu.ac.kr, +82-61-659-7161]
• Kyoung Ho Kang, Ph.D.
[Professor. Invertebrate Culture
mobidic@jnu.ac.kr, +82-61-659-7165]
• Kyeong Ho Han, Ph.D.
[Professor. Ichthyology Ecology and Taxonomy.
aqua05@jnu.ac.kr, +82-61-659-7163]
• Kang Hee Kho, Ph.D.
[Professor. Molecular Physiology
kkh@jnu.ac.kr, +82-61-659-7168]
• Sang Duk Choi, Ph.D.
[Professor. Aquaculture Environment Ecology
choisd@jnu.ac.kr, +82-61-659-7166]

■ Laboratories

- Reproductive Biology Lab
  · Reproductive Cycle of Marine Organisms
- Fish Thremmatology Lab
  · Nutritional Studies of Fish
- Reproductive Biology Lab
  · Basic Disciplines of Fish
- Marine Ecological Restoration Lab
  · Biological Components of Marine Ecosystems, Ecological Studies
- Form Environmental Ecology Lab
  · Chemical Ecology and Marine Invertebrate Ranch Development
- Resource Biology Physiology Lab
  · Fisheries Biological Studies on Physiology of the Body

Department of Aqualife Medicine

Contact Information
Tel: +82-61-659-7170
Fax: +82-61-659-7179
E-mail: sungju@jnu.ac.kr
URL: http://fishpath.jnu.ac.kr/

■ Graduate Studies in Aqualife Medicine

The Department of Aqualife Medicine enables students to launch professional careers in the field through exposure to both balanced research and education. Students who engage with the department have the opportunity to develop their skills and knowledge in various areas related to fish and shellfish health, pathogenesis, disease factors, fish medicine, water environments, and host defense of aquatic organisms. Research projects cover a broad range of needs including fish medicine, fisheries industries, and the food safety of fish and shellfish.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam.

Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

■ What Do You Study?

Experimental Theory of Immune Biochemical Techniques
Cell Biology of Fish Established Cell Lines
Biochemistry of Fish Viruses
Virulence Theory of Fish Pathogenic Viruses
Molecular Epidemiology of Fish Viruses
Pharmacokinerics in Fish
Convergence Research Design
Planning of Research Project
Management of Fisheries Disease Control Center
Field Management of Fish Diseases 1
Field Management of Fish Diseases 2
Field Management of Fish Diseases 3
Current Topic in Bacterial Fish Pathogens
Ecology of Drug Resistance Bacteria
Microanatomy of Fish
Topics in Morphogenesis
Microanatomy of Invertebrates
Cell Pathology
Advanced Fish Diseases and Nutrition
Diagnosis of Aquatic Animal Diseases 1
Diagnosis of Aquatic Animal Diseases 2
Fish Virology
Fish Parasitology
Ecology of Aquatic Pathogens
Health Control of Fishery Products
Advanced Environmental Disease
Topics in Environmental Analysis

Experimental Data Analysis
Advanced Aquatic Animal Physiology
Environmental Physiology
Advanced Aquatic Toxicology
Research Methodology
Prevention of Epizootics
Advanced Fish Immunology
Advanced Fish Pathology
Immunological Research Methods
Invertebrate Immunology
Clinical Pathology
Advanced Instrumenal Analysis
Topics in Applied Fish Pharmacology
Safety Control of Fisheries Products
Advanced Diseases of Inveterates
Principles of Fisheries Drug
Topics in Bioactive Natural Products
Introduction of Bioinformatics
Cell Ultrastructure
Advanced Diagnostic Methodology
Topics in Anti-Infectives
Current Topics in Immunostimulants
Topics in Biosecurity in Aquatic Organisms-
Topics in Biological Control-
Mechanisms of Fish Virus Infection
Vaccinology of Fish Viral Infection
ImmunoHistoChemistry
Molecular Virology

■ Professors

- Eunheui Kim, Ph.D.
  [Professor, Pathogenic Bacteriology and Genetics, ehkim@jnu.ac.kr]
- Jung Sick Lee, Ph.D.
  [Professor, Fish and Shellfish Anatomy, ljs@jnu.ac.kr]
- Myung-Joo Oh, Ph.D.
  [Professor, Fish Virology and Parasitology, ohmj@jnu.ac.kr]
- Heung-Yun Kim, Ph.D.
  [Professor, Fish Physiology and Toxicophysiology, hykim@jnu.ac.kr]
- Sung-ju Jung, Ph.D.
  [Professor, Fish Pathology and Immunology, sungju@jnu.ac.kr]
- So Young Kang, Ph.D.
  [Professor, Fish Pharmacology and Pharmacognosy, sykang1@jnu.ac.kr]
- Toyohiko Nishizawa, Ph.D.
  [Professor, Virology and Cell Biology, jjnishi@jnu.ac.kr]
- Wi-Sik Kim, Ph.D.
  [Associate Professor, Clinical diseases, wisky@jnu.ac.kr]

■ Laboratories

- Microbiology Lab
- Histopathology Lab
- Fish Disease Diagnostics Lab
- Environmental Physiology Lab
- Fish Disease Prevention Lab
- Pharmacology Lab
- Fish Virology Lab
- Clinical Lab

Food Technology & Nutrition

Contact Information
Tel: +82-61-659-7210
Fax: +82-61-659-7219
E-mail: gnahn@jnu.ac.kr

Graduate Studies in Food Technology & Nutrition

The objectives of the Department of Food Technology and Nutrition are ⅰ) to educate and research various disciplines as well as new theories and application technology related to food technology and nutrition in more depth, and ⅱ) to nurture talent students with adaptability against rapidly changing food environment and nutritional problems.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. Candidates are required to earn 36 credits. Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Graduate students are also required to pass the comprehensive exam, foreign language exam and submit a thesis.

What Do You Study?

Advanced Food Chemistry (3)
Advanced Food Science (3)
Carbohydrate Chemistry (3)
Lipid Chemistry (3)
Principles of Nutrition Interaction (3)
Advanced Food Preservation (3)
Advanced Nutrition (3)
Advanced Nutritional Biochemistry (3)
Analytical Chemistry (3)
Chemistry of Food Color & Pigments (3)
Chemistry of Food Flavor (3)
Advanced Instrumental Analysis (3)
Advanced Biochemistry (3)
Advanced Nutritional Chemistry (3)
Food Toxicology (3)
Nutrition for Fitness and Sports (3)
Nutrition in Life Cycle (3)
Community Nutrition (3)
Nutritional Research 1 (3)
Nutritional Research 2 (3)
Advanced Nutrition Theory (3)
Mineral Nutrition (3)
Vitamin Nutrition (3)
Nutrient Metabolism (3)
Clinical Nutrition Research (3)
Animal Experiments in Nutrition (3)
Advanced Nutrition Education (3)
Sensory Evaluation of Food (3)
Food Service Industry (3)
Diet & Disease (3)
Advanced Nutrition Counseling Education (3)
Advanced Cooking Science (3)
Physiopathology (3)
Advanced Statistics for Natural Scientists (3)

Clinical Nutrition Treatment 1 (3)
Clinical Nutrition Treatment 2 (3)
Clinical Nutrition Practice 1 (3)
Clinical Nutrition Practice 2 (3)
Evaluation of Functional Materials (3)
Advanced Functional Foods (3)
Physiological Active Substances (3)
Advanced Protein Chemistry (3)
Advanced Food Enzymes (3)
Advanced Natural Products Chemistry (3)
Advanced Enzyme Chemistry (3)
Molecular Biology (3)
Advanced Fermentation Technology(3)
Advanced Food Microbiology (3)
Management for Food Hazard Point (3)
Advanced Antibiotics (3)
Advanced Food Additives (3)
Advanced Applied Microbiology (3)
Advanced Food Hygiene (3)
Advanced Food Engineering (3)
Physical Properties of Foods (3)
Food Rheology (3)
Advanced Marine Resources Processing (3)
Advanced Seaweed Processing (3)
Food Stuff Technology (3)
Advanced Fisheries Chemistry (3)
Advanced Seafood Processing (3)
Food Resources Processing (3)

■ Professors

- Dong-Soo Kang, Ph.D.
  [Professor, Fisheries Chemistry, dskang@jnu.ac.kr]
- Sun-Jae Kim, Ph.D.
  [Professor, Food Safety, foodkims@jnu.ac.kr]
- Gin-Nae Ahn, Ph.D.
  [Professor, Marine Biotechnology, gnahn@jnu.ac.kr]
- Sun-Hee Cheong, Ph.D.
  [Professor, Functional Foods, sunny3843@jnu.ac.kr]

Naval Architecture and Ocean Engineering

Contact Information
Tel: +82-61-659-7150
Fax: +82-61-659-7159
E-mail: parkih@jnu.ac.kr

Graduate Studies in the Department of Naval Architecture and Ocean Engineering

Naval architecture and ocean engineering focuses on research and education in a variety of areas from basic theory to advanced technology on ship and offshore structures. The final goal of the Department lies in the design and production of the reliable and cost-effective transport systems and offshore structures which can carry out missions successfully in harsh ocean environments. The research scopes of naval architecture consist of resistance and propulsion, propulsor, structures and materials, motion and maneuverability, noise and vibration, and welding. Ocean engineering involves various scopes of technical problems that arise during the design, construction, load-out, and operation of various forms of structures developed to meet the needs of offshore petroleum and construction industries. Research on the ocean environment itself is also one of the major research fields of the Department. To meet increasingly complex technical demands, the Department extends research fields to cover rigorous analysis of detailed subjects using powerful computers. In particular, it offers on-board training courses on university-owned research and training ships.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam. Students who gain 4.0 in a semester are allowed to take up to 12 credits in the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

What Do You Study?

Boundary Layer Theory(3)
Advanced Structural Dynamics(3)
Advanced Structural Design(3)
Advanced Structural Analysis(3)
Advanced Ecological Engineering(3)
Advanced shipbuilding process(3)
Advanced Marine Auxiliary Machinery(3)
Advanced theory of ship motion and control(3)
Advanced ship outfitting(3)
Advanced hull corrosion protection(3)
Advanced hull manufacturing automation(3)
Advanced shipbuilding welding(3)
Advanced theory of ship vibration(3)
Advanced theory of noise control(3)
Advanced Fisheries Physics(3)
Advanced Numerical Methods(3)

ReliabilityandProbabilisticEngineeringDesign(3)
Advanced Hydrodynamics(3)
Finite Element Method(3)
Advanced Applied Mechanics(3)
AdvancedComputationalStructuralAnalysis(3)
Computational Fluid Mechanics(3)
Advanced Optimal Design(3)
SedimentTransportandLittoralProcesses(3)
AdvancedCoastalandHarborEnginering(3)
Coastal and Ocean Numerical Modelling 1(3)
Coastal and Ocean Numerical Modelling 2(3)
Advanced Marine Measurement(3)
On-siteandProjectStudyonOceanEngineering(3)
SpecialTopicsonMarineSurveyTechniques1(3)
Analysis of Offshore Structure(3)
Introduction to Ocean Thought(3)
Advanced Ocean Ecosystem Modelling(3)
Advanced Dynamical Oceanography(3)
Advanced Operational Oceanography(3)
Advanced Ocean Remote Sensing(3)
Ocean Data Assimilation and Inverse Method(3)
Advanced Ocean Information Analysis(3)
Advanced Ocean Informatics(3)
Advanced Marine Geographical Information System(3)
Advanced Water Wave Mechanics(3)
Turbulent Diffusion Theoryinthe Ocean(3)
Environmental Planning Methods(3)
Advanced Marine Environmental Engineering(3)

Professors

- Ok-Sam Kim, Ph.D.
  [Professor, Manufacturing Engineering of Ship, kos@jnu.ac.kr]
- Il-Heum Park, Ph.D.
  [Professor, Coastal and Ocean Engineering, parkih@jnu.ac.kr]
- Jong-Kyu Kim, Ph.D.
  [Professor, Ocean Informatics, kimjk@jnu.ac.kr]
- Hee-Jong Choi, Ph.D.
  [Professor, Ship Design, chiohj@jnu.ac.kr]
- Jee-Hun Song, Ph.D.
  [Professor, Ship Structural Vibration, jhs.@jnu.ac.kr]

Environmental Oceanography

Contact Information
Tel: +82-61-659-7140
Fax: +82-61-659-7149
E-mail: shinhc@jnu.ac.kr

Graduate Studies in Environmental Oceanography

The graduate program in Environmental Oceanography utilizes scientific and technological education and the application of marine environment studies. Students wishing to be advanced researchers in the field may choose from among 8 majors offered through the program.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam.

Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits in the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

What Do You Study?

Advanced Aquatic Environmental Processes (3)
Advanced Biology of Water Pollution (3)
Advanced Chemical Oceanography (3)
Advanced Coastal Oceanography (3)
Advanced Community Ecology (3)
Advanced Ecology of Fisheries Resources (3)
Advanced Estuary Ecology 1 (3)
Advanced Estuary Ecology 2 (3)
Advanced Evolutionary Ecology (3)
Advanced Fisheries Oceanography (3)
Advanced Geological Oceanography 1 (3)
Advanced Geological Oceanography 2 (3)
Advanced Intertidal Ecology (3)
Advanced Marine Biology of Benthos (3)
Advanced Marine Conservation Biology (3)
Advanced Marine Conservation Ecology (3)
Advanced Marine Ecology (3)
Advanced Deep Sea Biology (3)
Advanced Marine Planktology (3)
Advanced Marine Pollution (3)
Advanced Marine Pollution Control (3)
Advanced Marine Pollution Ecology (3)
Advanced Marine Sedimentology (3)
Advanced Marine Zooplanktology (3)
Advanced Ocean Bio-Genetics (3)
Advanced Ocean-Ecotoxicology 1 (3)
Advanced Ocean-Ecotoxicology 2 (3)
Advanced Ocean Environmental Condition (3)
Advanced Physical Oceanography 1 (3)
Advanced Physical Oceanography 2 (3)
Advanced Red Tides (3)
Environment Analysis of Fishing Area (3)
Environment of Fisheries Oceanography (3)
Fisheries Physical Oceanography (3)

Fluid Dynamics for Oceanography (3)
Instrumental Analytical Chemistry (3)
Marine Environmental Ecology (3)
Ocean Animal Behavior (3)
Ocean Eco-informatics (3)
Paleo Oceanography 1 (3)
Paleo Oceanography 2 (3)
Regional Oceanography (3)
Water Quality Control of Aquatic Culture Systems (3)
Zooplankton Taxonomy (3)

■ Professors

- Yeon Gyu Lee, Ph.D.
  [Professor, Marine Geology, lyg6342@jnu.ac.kr]
- Hyun Chool Shin, Ph.D.
  [Professor, Marine Benthic Ecology, shinhc@jnu.ac.kr]
- Hyeon Seo Cho, Ph.D.
  [Professor, Chemical Oceanography, hscho@jnu.ac.kr]
- Ho Young Soh, Ph.D.
  [Professor, Zooplankton Systematics and Ecology, hysoh@jnu.ac.kr]
- Ihn-Sil Kwak, Ph.D.
  [Professor, Zoology, iskwak@jnu.ac.kr]
- Yoonja Kang, Ph.D.
  [Assistant Professor, Phytoplankton Ecology, yoonjakang@jnu.ac.kr]

■ Laboratories

- Bio-environmental Science Lab
- Marine Geology Lab
- Physical Oceanography Lab
- Benthic Ecology Lab
- Chemical Oceanography and Environmental Pollution Lab
- Species Diversity and Ecology Lab
- Animal Behavior and Observation Lab

Department of Power System Engineering

Contact Information
Tel: +82-61-659-7130
Fax: +82-61-659-7139
E-mail: engine@jnu.ac.kr
URL: http://engineer.chonnam.ac.kr/

■ Graduate Studies in Power System Engineering

Power System Engineering is an academic field combining the mechanical engineering and the electrical/electronics engineering. Power System Engineering deals with the design, manufacture, control, and management of power machinery, thermal-fluid machinery, electrical/electronics machinery, etc. The Department of Power System Engineering aims for nurturing experts with state-of-the-art technology in the field of power system engineering. The department consists of five laboratories: internal combustion engine, hydraulic-pneumatic control, heat-fluid, applied mechanics, and electro-mechanical energy conversion.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

Doctoral degree candidates are required to earn 36 credits, up to 9 credits each semester. Candidates also have to pass a comprehensive exam and a foreign language exam as well as submit a thesis.

■ What Do You Study?

Advanced Engineering Mathematics
Image Visualization Engineering
Advanced Solid Mechanics
Advanced Air Conditioning
Advanced Measurement System
Advanced Engineering Mathematics
Advanced Engineering Thermodynamics 1
Advanced Machine Tools
Advanced Manufacturing Processes
Advanced Machine Design
Advanced Mechanical System Dynamics
Advanced Mechanical Dynamics
Advanced Mechanical Vibration
Advanced Gas-Dynamics
Turbulence
AdvancedInternal Combustion Engine 1
AdvancedInternal Combustion Engine 2
Advanced Dynamics
Control of Dynamic System
Analysis of Dynamic System
Advanced Robotics
Advanced Mechatronics
Advanced Numerical Analysis
System Design(Capstone Design)
Advanced Energy Engineering
Advanced Combustion Measurement System
Advanced Combustion Engineering 1
Advanced Combustion Engineering 2
Continuum Mechanics
Advanced Heat Exchangerand Design
Advanced Thermal Power Engineering
Advanced Thermodynamics 2

Advanced Heat Transfer 1
Advanced Heat Transfer 2
Advanced Joiningand Welding Engineering
Advanced Hydraulic-Pneumatic Control
Advanced Hydraulic Engineering
Advanced Fluid Machinery
Advanced Fluid Mechanics
Finite Element Method
Advanced Lubrication Engineering
Applied electromagnetics
Transport Phenomena
Electromagnetic field theory
Designand Control of Automatic System
Advanced Electric Machinery
Electric machine technology convergence capstone design
Electric machine analysis
Advanced Motor Control Theory
Electroc machine application theory
Advanced Computational Solid Mechanics
Advanced Computational Fluid Mechanics
Advanced Accurate Machining
Superconducting electric machine theory
Advanced Optimal Design
Studyon on Computer Simulation
Advaced Control System with Computer
Advanced Elasticity
Special machines application theory
Rotor Dynamics

■ Professors

- Kyong-Uk Yang, Ph.D.
  [Professor, Hydraulic-Pneumatic Control, yangku@jnu.ac.kr]
- Woo-Gyeong Wang, Ph.D.
  [Professor, Internal Combustion Engine, wangwk@jnu.ac.kr]
- Myung-Soo Choi, Ph.D.
  [Professor, Mechanical Vibration, engine@jnu.ac.kr]
- Kyung-Hun Shin, Ph.D.
  [Assistant Professor, Electric Machine. kshin@jnu.ac.kr]

■ Laboratories

- Applied Mechanics Lab
- Hydraulic-Pneumatic Control Lab
- Internal Combustion Engine Lab
- Heat-Fluid Lab
- Electro-Mechanical Energy Conversion Lab

Department of Maritime Police Science

Contact Information
Tel: +82-61-659-7180
Fax: +82-61-659-7189
E-mail: ksprof@jnu.ac.kr
URL: http://sea.jnu.ac.kr/sites/police/index.do

Graduate Studies in Department of Maritime Police Science

In response to the rapid development of the maritime industry and the increasing population engaged in maritime activities, there is a growing emphasis on maritime safety. The Department of Maritime Police Science aims to systematically train maritime police professionals. Through academic cooperation with the Yeosu Maritime Police Education Institute of the Maritime Police Agency, the department specializes in maritime police studies for current practitioners. With over 20 years since its establishment as an undergraduate program, there are sufficient graduates from the Department of Maritime Police Science who can pursue systematic research in graduate studies.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive/general exam and a foreign language exam. Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

What Do You Study?

Advanced International Law (3)
Advanced Fisheries and Oceanography (3)
Advanced Maritime Police Science (3)
Advanced Criminal Law (3)
Advanced Criminal Procedure Law Seminar (3)
Advanced Public Law Research (3)
Advanced Maritime Crime Studies (3)
Advanced Fisheries Law and Regulations (3)
Advanced Maritime Safety Engineering (3)
Advanced Maritime Law (3)
Advanced Maritime Transportation Law (3)
Advanced Police Science (3)
Advanced Police Investigation (3)
Advanced Maritime Police Science (3)
Advanced Criminal Policy (3)
Advanced Maritime Patrol (3)
Advanced Maritime Security (3)
Advanced Maritime Information (3)
Advanced International Maritime Law (3)

Professors

- Dal-hyun Park, Ph.D.
  [Professor, Criminal Law, dhpark328@jnu.ac.kr]
- Duck-jong Jang, Ph.D.
  [Professor, Marine Safety, Navigation, Marine Pollution response, jdj@jnu.ac.kr]
- Ki-Soo Lee, J.S.D.
  [Professor, Criminal Law, Police Science, ksprof@jnu.ac.kr]
- Ho-Sam Bang, Ph,D.
  [Professor, International Law of the Sea, Maritime Law, hosamms@jnu.ac.kr]

BIg data Fishery Resource Management Interdisciplinary Program

Contact Information
Tel: +82-61-659-6921
E-mail: hysoh@jnu.ac.kr
URL: http://fmrc.ac.kr

Graduate Studies in Fisheries Science

The program has been designed to further the development of fishery resource management specialists to solve pending issues in the flood field, development and utilization of 4th industrial technology related to the flood field, and development of field-tailored fishery resource management specialists.

Degree Requirements

Master's degree candidates are required to earn 24 credits to graduate. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam.

Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

What Do You Study?

Acoustics Fishing Methodology (3)
Advanced Analysis of Seawater (3)
Advanced Coastal Oceanography (3)
Advanced Developmental Biology (3)
Advanced Feeding Ecology of Fishery Resources (3)
Advanced Fisheries Business Management (3)
Advanced Fishery Resources Model Based on Marine Ecosystem (3)
Advanced Fishing Management (3)
Advanced Ichthyology (3)
Advanced Marine Animal Taxonomics (3)
Advanced Marine Benthic Fauna (3)
Advanced Marine Conservation Biology (3)
Advanced Marine Data Analysis 1 (3)
Advanced Marine Data Analysis 2 (3)
Advanced Marine Planktology (3)
Advanced Marine Pollution (3)
Advanced Marine Zooplankton Ecology (3)
Advanced Sciencw of Aquatic Resources (3)
Advencesin Invertebrate Taxonomy (3)
Big Data Analytics and Practice (3)
Bioinformation (3)
Biological Production Marine Lower Trophic Levels (3)
Community Advanced (3)
Fish Ecology (3)
Fisheries Data Processing (3)
Fishery Resources Assessment (3)
Fishery Resources Management Based on ICT (3)
Fishing Ground Safety Management (3)
Fishing Methods and Ecology (3)
Image Pattern Recognition (3)
Machine Learning (3)
Metagenomics (3)

Oceanic Data Processing and Analysis 1 (3)
Statistics for ICT Marine Biology (3)
Topics in Convergence System (3)

■ Professors

- Ho Young Soh Ph.D.
  [Professor. Zooplankton Diversity
  hysoh@jnu.ac.kr, +82-61-659-7147]
- Hyun Chool Shin Ph.D.
  [Professor.Marine Benthic Ecology
  shinhc@jnu.ac.kr +82-61-659-7145
- Hyeon Seo Cho Ph.D.
  [Professor.Marine Chemical Oceanography
  hscho@jnu.ac.kr +82-61-659-7146
- Won-Kyo LEE Ph.D.
  [Professor. Reproduction organism
  wklee196@jnu.ac.kr, +82-61-659-7161]
- Kyeong Ho Kang, Ph.D.
  [Professor. Invertebrate Culture
  mobidic@jnu.ac.kr, +82-61-659-7165]
- Sang Duk Choi, Ph.D.
  [Professor. Aquaculture Environment Ecology
  choisd@jnu.ac.kr, +82-61-659-7166]
- Hyi Thak Chong Ph.D.
  [Professor. Bioinformatics
  htceong@jnu.ac.kr, +82-61-659-7434]
- Taeho Kim Ph.D.
  [Professor. Fisheries Engineering
  kimth@jnu.ac.kr, +82-61-659-7121]
- Duck Jong Jang Ph.D.
  [Professor. Navigation and Marine Safety
  jdj@jnu.ac.kr, +82-61-659-7182]
- Man Ki Jeong Ph.D.
  [Professor. Marine Biology
  jmgdeux@jnu.ac.kr, +82-61-659-7411]
- Jeong Seon Park Ph.D.
  [Professor. Pattern Recognition
  jpark@jnu.ac.kr, +82-61-659-7444]
- Soon Hee Han Ph.D.
  [Professor. Multimedia System
  shhan@jnu.ac.kr, +82-61-659-7432]
- Chun Goo Park Ph.D.
  [Professor. Molecular Evolution
  chungoo@jnu.ac.kr, +82-62-530-1913]

Interdisciplinary Program of Smart Aqua Farm

Contact Information
Tel: +82-61-659-7120
Fax: +82-61-659-7129
E-mail: ssszzzl@jnu.ac.kr
URL: http://aqua.jnu.ac.kr

■ Graduate Studies in Interdisciplinary Program of Smart Aqua Farm

The Program's Goal: The Interdisciplinary Program of Smart Aqua Farm organizes a curriculum that combines traditional aquaculture with Fourth Industrial Revolution technologies such as information and communication technology (ICT), big data, and artificial intelligence (AI) to cover aquaculture organism production, aquaculture system, environment, and electricity.

■ Degree Requirements

Applicants for the master's degree are required to acquire 24 credits, including 12 credits from the Interdisciplinary Program of Smart Aqua Farm and 6 credits from required subjects. Applicants for the doctoral degree are required to acquire 36 credits, including 18 credits from the Interdisciplinary Program of Smart Aqua Farm and 9 credits from required subjects. Candidates for all degree programs must pass the comprehensive exam and foreign language test before submitting a thesis / dissertation in order to obtain the degree.

Students are recommended to obtain 9 credits in the first semester of the program. Those who record an average GPA of 4.0 or above can acquire a maximum 12 credits next semester. Students are not supposed to earn more than 6 credits from courses offered by their advisor professor.

■ What Do You Study?(*Required subjects)

Advanced Sensor Engineering (3)
Fish Physiology (3)
Field Management of Fish Diseases 1 (3)
Smart Imaging Diagnostics* (3)
Advanced Smart Aquaculture System* (3)
Advanced Smart Aquaculture Automation Technology and Application* (3)
Smart Fish Health Care* (3)
Smart Water Management * (3)
Water Quality Control of Smart Aquaculture* (3)
Advanced Fisheries Bio-informatics (3)
Special Topics in ICT-Based Fish Behavior* (3)
Shared Data Analysis (3)
Edge Computing (3)
Computational Stress Analysis (3)
Optimal Design (3)
Infectious Disease Prevention (3)
Immunity Research Methods (3)
Clinical Pathology (3)
Special Topics in Instrumental Analysis (3)
Special Topics in Fish Pharmacology (3)
Special Topics in Embryology (3)
Marine Invertebrate Zoology (3)
Advanced Fish Feeds (3)

Biology of Fish Larva (3)
Advanced Marine Fish Culture (3)
Numerical Analysis for Environment Engineering (3)
Special Topics in Pollutant Mixing (3)
Physical and Chemical Processes for Water and Wastewater Treatment (3)
Applied Instrument Analysis (3)
Machine Learning (3)
Data Mining (3)
Image Pattern Recognition (3)
Topics in Convergence System (3)
Advanced Information Technology (3)
Membrane Water Treatment Process (3)
Research Guidance 1 (3)
Research Guidance 2 (3)
Research Guidance 3 credits (3)

■ Professors

- Kim Tae-ho[Professor, Fisheries Engineering, kimth@jnu.ac.kr, 061-659-7121]
- Kang So-young[Professor, Fish Physiognomy, sykang1@jnu.ac.kr, 061-659-7176]
- Kho Kang-hee[Professor, Physiology of Biological Resources, kkh@jnu.ac.kr, 061-659-7168]
- Kim Eun-sik[Professor, Functional Environmental Materials, skim@jnu.ac.kr, 061-659-7266]
- Kim Wi-sik[Associate professor, Fish Pathology, wisky@jnu.ac.kr, 061-659-7177]
- Park Jeong-seon[Professor, Computer Science, jpark@jnu.ac.kr, 061-659-7444
- Lee Won-kyo[Professor, Reproductive Biology, wklee196@jnu.ac.kr, 061-659-7161]
- Lee Ji-hoon[Professor, Fishing System, jihoon.lee@jnu.ac.kr, 061-659-7123]
- Jung Sung-ju[Professor, Fish Pathology, sungju@jnu.ac.kr, 061-659-7175]
- Jeong Hee-taek[Professor, Computational Statistics, htceong@jnu.ac.kr, 061-659-7434]
- Han Kyeong-ho[Professor, Ichthyology, aqua05@jnu.ac.kr, 061-659-7163]
- Han Soon-hee[Professor, Compiler, shhan@jnu.ac.kr, 061-659-7432]
- Kang Ji-hoon[Associate professor, Medical Imaging System, jihoon.kang@jnu.ac.kr, 061-659-7363]
- Hwang Min-jin[Associate professor, Industrial and Environmental Engineering, vip7080@jnu.ac.kr, 061-659-7267]
- Kwon In-yeong[Assistant Professor, Aquatic Animal Behavior, inyeong1201@jnu.ac.kr, 061-659-7412]

Ⅷ. Professional Graduate Schools

Graduate School of Business

Contact Information
Phone: +82-62-530-1501~2
Fax: +82-62-530-1490
E-mail: gsbmba.jnu.ac.kr
URL: http://mba.jnu.ac.kr/

Overview

The mission of the Graduate School of Business (GSB), established on March 1, 2007, is to nurture business leaders through practical, global, and an interdisciplinary-oriented education that meets international standards. The GSB offers Global MBA and K-MBA degrees operated on a 45 contact hours system in 4 semesters across 2 years. The program admits students with academic aptitude, regardless of work experience but an internship is required for those students with no work experience. The school also offers Customized Executive MBA Programs designed to meet the specific needs of an industry or a firm. In 2015, the school launched KEPCO E^3 MBA which is the dual degree program with Darla Moore School of Business, University of South Carolina in USA. for Korean Electricity Power Company(KEPCO) employees.

As a result of the school's effort to provide an education with a global orientation, the school had earned AACSB international accreditation in July 2012 and earned reaccreditation in April 2018. In 2023, GSB received AACSB accreditation three times in a row. The GSB offers students not only knowledge and skills in corporate management and entrepreneurial enterprises, but also opportunities to deepen their understanding of Asian business culture through business field study tours to top business schools in Asia.

History

Feb 1969 Established as the Graduate School of Business Administration
Mar 1994 Launched Advanced Management Program
Mar 2007 Transformed into the Graduate School of Business and launched MBA Program
Apr 2010 Launched MOT MBA Program
July 2012 Accredited AACSB
Mar 2014 Selected KOICA-CNU by Korea International Cooperation
Aug 2015 Launched KEPCO E^3 MBA Dual Degree Program(Customized Executive MBA Program) K-MBA
Apr 2018 Reaccredited AACSB
Oct 2018 Launched Big data Management track
Mar 2019 Concluded an MOU for MBA Dual Degree Program with University of Missouri-St. Louis

Educational Goals

1. Practical Management Education: Prepare students with practical capabilities through case studies requiring problem-solving and decision-making skills, project-based learning and internships.
2. Global Orientation: Provide students with opportunities to study abroad through academic exchanges and collaborative projects with leading MBA programs in Asia, Europe, and the USA. In addition, students will be provided with foreign language education, global experiences through interaction with international students, student exchange programs, and lectures by distinguished scholars in the field.
3. Interdisciplinary Training: Equip students with skills, knowledge, and leadership as well-rounded business managers in corporate management in such areas as finance, accounting, human resources and organization, marketing, production/operations, management information systems, and international business.

■ Curriculum

Global MBA and K-MBA curricula are composed of all electives. Students need only 45 credits for any subjects in either curriculum. During the second year, students can do the Capstone Project1 and 2 instead of in-person lectures, through which they compile their knowledge and field training experience during the MBA course. The Capstone projects are a form of self-study teams or alone. Such a systematic curriculum enables students to be fully equipped with the necessary knowledge, in-depth expertise, and comprehensive and practical perspectives essential to become qualified business leaders.

Education System

	Global MBA	K-MBA
Degree offered	Master of Business Administration (Global MBA)	Master of Business Administration
Medium of instruction	English and Korean	Korean
Length of program	4 Semesters in 2 Years	

■ Degree Requirements

In order to obtain an MBA degree, students are required to complete 45 credit hours consisting of core courses and electives with a grade point average of B or above. Also, students need more than six months of work experience and an internship is required for those students with no work experience.

■ Professors

Business Administration

- Ilsang Ko, Ph.D.
  [Professor, MIS, isko@jnu.ac.kr]
- Joon Koh, Ph.D.
  [Professor, MIS, kjoon@jnu.ac.kr]

- Min-Jeong Kim, Ph.D.
  [Associate Professor, Human Resource Management and Organizational Behavior, minjkim@jnu.ac.kr]
- Sang-Hee Kim, Ph.D.
  [Professor, Marketing, ksh2851@jnu.ac.kr]
- Seon-mi Kim, Ph.D.
  [Assistant Professor, Accounting, smkim09@jnu.ac.kr]
- Eun-Hee Kim, Ph.D
  [Associate Professor, Technology Management, eheekim@jnu.ac.kr]
- Jae-Yun Kim, Ph.D
  [Professor, Operations Management, jaeyun@jnu.ac.kr]
- Ji-Yoon Kim, Ph.D.
  [Assistant Professor, International Business, jykim2016@jnu.ac.kr]
- Hyun-Jae Park, Ph.D.
  [Associate Professor, Strategic Management, daniel@jnu.ac.kr]
- Kwang-il Bae, Ph.D.
  [Associate Professor, Finance, k.bae@jnu.ac.kr]
- Yong-zik Shin
  [Assistant Professor, Accounting, yzshin@jnu.ac.kr]
- Jae-Do Song, Ph.D.
  [Associate Professor, Marketing, sjaedo@jnu.ac.kr]
- Duk-Sup Shim, Ph.D.
  [Professor, Human Resource Management and Organization Studies, dsshim71@jnu.ac.kr]
- Chae-Yeol Yang, Ph.D.
  [Professor, Finance, cyyang@jnu.ac.kr]
- Ji Seon Yoo
  [Assistant Professor, Accounting, jsyoo@jnu.ac.kr]
- Hyun Sik Yoon, Ph.D.
  [Assistant Professor, MIS, Dr.Yoon@jnu.ac.kr]
- Kang-Mun Lee, Ph.D.
  [Assistant Professor, International Business, km2310@jnu.ac.kr]
- Sang-Joon Lee, Ph.D.
  [Professor, MIS, s-lee@jnu.ac.kr]
- Su-Yol Lee, Ph.D.
  [Professor, Environmental and Operations Management, leesuyol@jnu.ac.kr]
- Soojin Lee, Ph.D.
  [Assistant Professor, Organizational Behavior and Leadership, soojinlee@jnu.ac.kr]
- Young-Je Im, Ph.D.
  [Assistant Professor, Accounting, yjeim@jnu.ac.kr]
- Myung-Sook Jun, Ph.D.
  [Associate Professor, Labor and Industrial Relation, msjun@jnu.ac.kr]
- Seong-Il Jeon, Ph.D.
  [Professor, Financial Accounting, sijeon@jnu.ac.kr]
- Ki-Ju Cheong, Ph.D.
  [Professor Marketing, kcheong3@jnu.ac.kr]
- Yong-Ki Jung, Ph.D.
  [Professor, Accounting Information Systems, ykchung@jnu.ac.kr]
- Geon Cho, Ph.D.
  [Professor, Operations Management, gcho@jnu.ac.kr]
- Sung-Do Cho, Ph.D.
  [Professor, Marketing, matt@chonnam.ac.kr]
- YongDuk Choi, Ph.D.
  [Assistant Professor, Human Resource Management, ydchoi@jnu.ac.kr]
- Sung-Ho Choi, Ph.D.
  [Associate Professor, Finance, shchoi@jnu.ac.kr]
- Ung-Yong Choi, Ph.D.
  [Professor, Cost and Managerial Accounting, uychoi@jnu.ac.kr]
- Ji-Ho Choi, Ph.D.
  [Professor, Marketing, jihocool@jnu.ac.kr]
- Byoung-Sop Han, Ph.D.
  [Associate Professor, International Business, hanbs@jnu.ac.kr]
- So-Ra Park, Ph.D
  [Assitant Professor, MIS doorae0207@jnu.ac.kr]
- Soohoon Park, PhD.
  [Assitant Professor, Operation Management, soohoon.park@jnu.ac.kr]

Graduate School of Culture	*Contact Information* Phone: +82-62-530-4079 Fax: +82-62-530-4069 URL: http://culture.jnu.ac.kr/

■ Graduate School of Culture

History

Oct	2005	School of Culture at JNU authorized to open
Mar	2006	First-year graduate students enrolled in the Program of Culture Theory and Planning and the Program of Culture and Tourism, Performed the 1st Asian Culture & Arts Academy project(Ministry of Culture & Tourism, Gwangju Metropolitan City)
Mar	2007	Held an academic seminar on storytelling for the creation of Hub City of Asian Culture(Hub City of Asian Culture Promotion Group)
July	2008	Moved from the Yongbong Cultural Center building to the Yongji Center building.
Sep	2009	Change the Name of the Program of Culture and Tourism to Cultural Management and Tourism
Mar	2011	Performed a service to change the comprehensive plan for the Creation of Hub City of Asian Culture(Gwangju Metropolitan City)
Mar	2012	Worked on the 518 Road Development Project(Ministry of Culture, Sports and Tourism, Gwangju Metropolitan City)
Mar	2013	Worked on the Asian Culture Academy Consignment Operation Project(Hub City of Asian Culture Promotion Group) Conducted Brain Korea 21 PLUS Program(~ 2020, Ministry of Education)
Mar	2014	Change the Name of the Program of Culture Theory and Planning to Arts and Culture Planning Launched a Ph.D. program (Department of Cultural Studies) at Graduate School, 30 first-year students enrolled in the Ph.D. program
Mar	2015	Students enrolled in the newly added Program of Media and Arts Technology
Jan	2020	Established the Cultural Convergence Research Institute
Aug	2021	Change the Name of the Program of Media and Arts Technology to Media Content & Culture Technology

Vision

- To foster creative and competent cultural planners and educational specialists in the field of Korean culture.
- To develop creative minds with the ability to identify the natural relationship between uniqueness and universality based on a comprehensive understanding of cultural diversity.
- To nurture the ability to attract aesthetic or artistic factors from daily life and to commercialize them based on the knowledge of Korean cultural technology.

Staff

Position	University Classification	Name
Dean	Professor	Shin-Kyum Kang, Ph.D.
Associate Dean	Professor	Ki-Hyun Park, Ph.D.

Faculty Members

	Faculty				Staff			Total
	Professors	Associate Professors	Assistant Professors	Assistants	General Affairs	Maintenance	School Supporting Association	
No.	8	2	1	1			1	13

Entrance Quota for Each Department

Departments	Arts and Culture Planning Cultural Management and Tourism Media Content & Culture Technology	Total
Entrance Quota	30	30

■ Overview of Programs

The Graduate School of Culture was established in 2006 in order to nurture creative professionals working in the culture industry. The School's programs are aimed at teaching students the social and financial values of art and culture, and developing a long-term perspective on commercialization using the academic base of liberal arts studies. To achieve this goal, the School provides three programs:

1) Arts and Culture Planning
2) Cultural Management and Tourism
3) Media Content & Culture Technology

The Arts and Culture Planning program is designed to educate talented planners able to produce creative cultural products based on knowledge of the humanities that encompass aesthetics, cultural studies, literature, ecology, philosophy, and sociology. The program aims to create cultural art theorists who have a clear grasp of current trends in global cultural project planning and policy. The program also aspires to enable professionals to communicate cultural and art products to the general public, and identify consumption and production practices.

The aim of the Cultural Management and Tourism Program is to train professionals in cultural management and tourism and create culture and place marketing experts who can conduct research and planning, and oversee management by uniting various professional fields in a creative and integrative way based on passion, knowledge, and executive ability.

“Culture, Tourism, and Place” are chosen as three key words of this program, and the two routes, the Cultural Tourism Strategist route and Place Marketing Strategist route, are available along with a 32-subject curriculum.

The Cultural Tourism Strategist route is designed to create tourism professionals equipped with comprehensive and unique abilities. This route empowers students to overcome the limits of mass tourism by identifying alternative industries such as ecotourism, social welfare tourism, sustainable tourism, and green tourism.

The Place Marketing Strategist route aims to produce experts in the fields of place marketing and spatial culture. Students are empowered to practice in the new paradigm of Place Studies including place identity, urban culture, cultural politics of space, and human communication and networking, from which identity and authenticity of region and place as grounds of daily life are derived. This route focuses on nurturing the ability to conduct creative, critical, and practical research, and devise plans related to urban and local cultural contents and brands.

The Media Content & Culture Technology program focuses on creating quality media specialists who are armed with cultural sensibility and a sound view on society through a comprehensive understanding of video, animation, video games, web, design and digital media industries that are vital in the digital era.

■ Degree Requirements

To obtain the MA, a student must meet the following requirements:

1) 30 credit hours in the Graduate School of Culture and a minimum of 21 credit hours in the major.
2) Students need to demonstrate proficiency in one foreign language (English, Chinese, French, German, or Japanese) and pass a foreign language test recognized by their department.
3) submit a “Proposal for Thesis” under the supervision of his/her thesis supervisor.
4) submit and defend an acceptable thesis.

■ What Do You Study?

Arts and Culture Planning

Public Art and Community Art(3)
Culture & Community(3)
Performing Arts Planning(3)
International Exhibitions(3)
Multicultural Studies(3)
Cultural Planning in Urban Space(3)
Seminar in Culture Aesthetics(3)
Cultural Industry Seminar(3)
Introduction to Culture Industry(3)
Arts and Culture Education Workshop(3)
Seminar in Art and Culture Planning(3)
Introduction to Culture and Arts Planning(3)
Introduction to Cultural Policy(3)
Cultural Contents Planning Workshop(3)
Cultural Contents Theory(3)
Cultural Contents and Storytelling(3)
Museums and Cultural Complexes(3)
Imagination and Culture(3)
Sound and Global Imagination(3)
Workshop for Minor-cultural Planning 1(3)
Seminar for Minor-cultural Theories(3)

Research on Minority Movement(3)
Seminar on Visual Culture(3)
Understanding of Visual Culture(3)
Music Culture and Performance(3)
Local Cultural Policy(3)
Workshop for Creative Planning(3)
Introduction to Art & Cultural Theories(3)
Modern and Contemporary Art: History and Issues(3)
Theories of Mass Culture(3)
Media Aesthetics(3)
Seminar in Culture Planning(3)
Research on Cultural City(3)
Culture Aesthetics(3)
Seminar in Cultural Studies(3)
Seminar in Art & Culture Education(3)
Introduction to Art&Cultural Theories(3)
Myth & Narrative(3)
Image & Writing(3)
Theories of Visual Communication(3)
Project on Gwangju Cultural City(3)
Cultural Semiotics & Practice in Cultural Contents(3)
Seminal in Culture Producing(3)
Research on Cultural Narrative(3)
Methods for the Study of Culture(3)
Culture & Photography(3)
Seminar in Cultural Policy(3)
Workshop For Cultural Policy(3)
Seminar for MA(3)
Study of Regional Cultures(3)

Cultural Management and Tourism

Emotion and Culture Marketing(3)
Spatial Culture Design(3)
Spatial Culture and Place Identity(3)
Culture Politics of Space(3)
Public Marketing(3)
Audience Development Studies(3)
Tourism and Culture(3)
Tourism and Local Regeneration(3)
Green Tourism Manual(3)
Seminar in Urban Tourism Planning(3)
Urban Cultural Policy(3)
Theories of Urban Branding Management (3)
Cultural Governance Research(3)
Data Analysis in Cultural Management(3)
Research Methodology in Cultural Management(3)
Culture business Strategy and Leadership(3)
Cultural Economics(3)
Cultural Tourism Economics(3)
Seminar in Cultual Tourism planning & Design(3)
Cultural Tourism Marketing Research(3)
Cultural Tourists'Behaviors(3)
Seminar on Cultural Tourism Studies(3)
Cultural Tourism Research Methodology(3)
Seminar on Cultural Tourism Issues(3)
Studies on Cultural Tourism Resources(3)
Seminar in Cultural Tourism Policy(3)
Cultural Tourism Contents Marketing(3)
Arts & Cultural Management Studies(3)
Consumer Behavior in Arts and Culture(3)
Policy Studies in Promoting Arts & Culture(3)
Culture and Welfare(3)
Culture Convergenced Tourism Workshop(3)
Cultural Healing Seminar(3)
Music Management(3)
Seminar for MCT(3)
Asia Culture Exchange Workshop(3)
Asia Cultural Cities Workshop(3)
Art Tourism Seminar(3)
Leisure and Culture(3)
Arts Organizations & Theater Management(3)
Seminar in Place Marketing Strategy(3)
Sustainable Tourism(3)
Community Tourism(3)
Theories of Creative Urban Development(3)
Experimental Marketing(3)
Festival & Culture(3)
Festival and Event Management(3)
Culture Business Theory(3)
Study on Cultural Tourism Theory(3)
Reserch for Ecotourism(3)
Workshop for Place Marketing Strategy(3)

Media Content & Culture Technology

3D Animation & VFX(3)
3D Animation Workshop(3)
Virtual Reality and Augmented Reality Study(3)
Emotional Media Study(3)
Game and Storytelling Workshop(3)
New Media and Production of Broadcasting(3)
New Media and Social Media Design Study(3)
New Media Contents Storytelling(3)
Media Art Independent Project(3)
Digital Image Directing Theory(3)
Digital Interdisciplinary Arts Seminar(3)
Digital Photography Seminar(3)
Multimedia Contents Study(3)
Mobile Contents Analysis and Study(3)
Media Thesis Research(3)
Media Art Seminar(3)
Media Arts & Animation(3)
Media Art and Communication(3)
Media Image Analysis(3)
Media Contents Independent Project(3)
Media Paradigm and Trend Analysis(3)
Strategy of Media Public Relation(3)
Broadcast Contents Storytelling(3)
Book Media Project(3)
Big data and Social Media Study(3)
Visual Contents Seminar(3)
Realistic Media CG Research(3)
Study on Cartoon and Animation(3)
The Characteristics of Animated Film(3)
Interaction between Image and Music(3)
YouTube and Visual Video Contents(3)
Interdisciplinary Experiment Media Workshop(3)
Convergence Contents Project(3)
Artificial Intelligence and Contents Study
Interactive Media Study(3)
Creative Service Design(3)
Advanced Cartoon Production Animation(3)
Culture Technology Study(3)
Killer Contents Analysis and Study(3)
Technical Arts Projects(3)
Planning Portfolio(3)
Human Media Interaction(3)
CG Animation Independent Project(3)

■ Professors

Administrators

- Shin-Kyum Kang, Ph.D.
  [Professor, Tourism(Cultural Tourism Marketing/ Ecotourism), tourlab@jnu.ac.kr]
- Ki-Hyun Park, Ph.D.
  [Professor, Media Aesthetics/Cultural Theory, dumal@jnu.ac.kr]

Arts and Culture Planning Program

- Kyung-woon Jeong, Ph.D.
  [Professor, Narratology, kw518@yahoo.co.kr]
- Ki-Hyun Park, Ph.D.
  [Professor, Media Aesthetics/Cultural Theory, dumal@jnu.ac.kr]
- Jina Kim, Ph.D.
  [Professor, Art History/Cultural Studies/Exhibition Studies, jkart@jnu.ac.kr]
- Shi-Hun Noh, Ph.D.
  [Professor, Cultural Contents, shnoh@jnu.ac.kr]

Cultural Management and Tourism Program

- Mu-Yong Lee, Ph.D.
  [Professor, Place Marketing/Festival Studies/Urban Culture Management, cult@jnu.ac.kr]
- Shin-Kyum Kang, Ph.D.
  [Professor, Tourism(Cultural Tourism Marketing/ Ecotourism), tourlab@jnu.ac.kr]
- Chi-Ok Oh, Ph.D.
  [Professor, Tourism Management/Tourism Economics, chiokoh@jnu.ac.kr]
- Ji-Hyon Park, Ph.D.
  [Assistant Professor, Arts & Cultural Management,

jihyon0906@jnu.ac.kr]

Media Content & Culture Technology

- Kyoung-Soo Kim, Ph.D.
  [Professor, Multimedia Design, ks@jnu.ac.kr]
- Choon-Sung Shin, Ph.D.
  [Associate Professor, Digital Culture Contents/ AR·VR/ Culture Technology, cshin@jnu.ac.kr]
- Trina Hyunjin Byun, Ph.D.
  [Associate Professor, Media Art/Digital Art, aawoo@jnu.ac.kr]

■ Cultural Convergence Research Institute (CCRI)

The Cultural Convergence Research Institute (CCRI) is designed to conduct various research and development projects to (re)define regional identity; to support regional culture & economic development; and to realize the universal values and ideals of human societies via the globalization of regional culture. CCRI also aims to increase the academic prestige of Chonnam National University as a nation's leading research university. Currently, eight laboratories are operated by CCRI to serves diverse research activities.

Law School

Contact Information
Phone: +82-62-530-2201, 2208
Fax: +82-62-530-2209
E-mail: cnulawschool@jnu.ac.kr
URL: http://lawschool.jnu.ac.kr

The School in General History

1953. 04. College of Liberal Arts, Department of Law, as part of the newly established Chonnam National University
1954. 02. Permitted to establish college of law (Dep't of Law & Dep't of Public Administration)
1955. 08. Department of public administration abolished. Renamed the Dep't of Law
1955. 12. Professor Se-Hoon Kee became the first Dean
1957. 03. Conferred law degrees for the first time (22)
1970. 12. Re-established Dep't of Public Administration (incoming class of 20)
1975. 11. Established Social Science Research Center in the college of law
1983. 03. Divided Dep't of Law into Dep't of Public Law and Dep't of Private Law
1985. 11. Transferred Social Science Research Center to the College of Social Science Established Institute for Law and Public Administration
1990. 06. Established Career Development Office
1995. 03. Merged Dep't of Public Law and Dep't of Private Law into one Dep't of Law
1995. 06. Established Computer Lab
1996. 07. Established Law Library
1997. 03. Established Language Lab
1999. 03. Merged Dep't of Law and Dep't of Public Administration into Law Major (total 230)
2001. 03. Adjusted the size of the incoming class (221)
2005. 02. Entered into Academic Cooperation Agreement with Kobe University College of Law in Japan
2005. 04. Opened Prime Study Hall
2005. 12. Entered into Academic Cooperation Agreement with Remin University Law Center in China
2005. 12. Entered into Academic Cooperation Agreement with Yentai University College of Law in China
2006. 03. Merged with the Dep't of Public Administration at Yesu University (Class size 251)
2006. 06. Entered into Academic Cooperation Agreement with Qinghwa University College of Law in China
2007. 04. Entered into Academic Cooperation Agreement Hong Kong Chinses University Law School
2008. 01. Preliminary approval for law school
2008. 08. Officially approved to establish a law school for 120 students
2009. 03. Opened CNU Law School. Abolished College of Law, Transferred Dep't of Public Administration to College of Social Science.
2010. 02. Entered into Academic Cooperation Agreement with University of Kansas, School of Law in USA
2011. 03. Entered into Academic Cooperation Agreement with Keio University College of Law in Japan

2012. 05. Entered into Academic Cooperation Agreement with “Ho Chi Minh city University of Law” in Vietnam
2016. 10. Entered into Academic Cooperation & Practical training Agreement with Law Firm ‘Yang Associates’ in Moscow
2017. 01. Entered into Academic Cooperation & Practical training Agreement with Law Firm ‘Nelson Mullin Riley & Scarborough L.L.P’ in USA
2017. 12. Entered into Academic Cooperation & Practical training Agreement with Law Firm ‘XINGTONG’ in China
2018. 09. Entered into Academic Cooperation Agreement with Nankai University College of Law in China
2019. 12. Entered into Academic Cooperation Agreement with “Civil, Commercial and Economic Law School, China University of Political Science and Law” in China
2023. 02. Juris Doctor (Accumulates 1,346 people)
2023. 04. Getting qualified as a lawyer (Accumulates 1,126 people)

■ Educational Goal

With vaues based on the spirits fo Truth, Creation, and Dedications, the educational motto fo CNU, the school’s educational goal is to educate and cultivate world-class legal experts with special areas fo expertise.

The school will equip its students with the required capability and knowledge to professionally handle complicated legal issues in order to provide quality legal service, while maintaining a deep understanding of humanity and society. Students educated by the school will emerge in this globalized world as the legal experts with:

(1) solid ethical views;
(2) sufficient legal knowledge and practical capability; and
(3) strong sense of social solidarity.

■ Administrators

Title	Rank	Name
Dean	Professor	Byung-Ro Min
Assistant Dean for Academic Affairs	Associate Professor	Byung-Seok Lim
Assistant Dean for Student Affairs	Professor	Hye-Sun Choi
Administrative Director	Governmental Official	Sun-Joon Kim

■ Faculty

Classification	Faculty				Administrative Staffs		Total
	Professors	Associate Professors	Assistant Professors	Teaching Assistants	General	University Funded	
Numbers	34	7	1	3	4	2	51

■ Enrollment

the master's course	the doctor's course
120	10

■ Faculty Members

▌Professors

Name	Major
• Bong-Su Kim, LL.D.	[Professor. Criminal Law, ant103683@jnu.ac.kr]
• Song Kim, LL.D.	[Professor. Civil Law, kimsong5@jnu.ac.kr]
• Soon-Suk Kim, LL.D.	[Professor, Commercial Law, soonskim@jnu.ac.kr]
• Yeon-Mi Kim, LL.D.	[Professor, Philosophy of Law, yeonmy@jnu.ac.kr]
• Jae-Seung Kim, J.D. SJD.	[Professor, Tax Law, kimjjss@jnu.ac.kr]
• Ji-su Kim, LL.D.	[Professor, Korean & Chinese Legal History and Philosophy, Chinese Law. Lotus.-Bud@jnu.ac.kr]
• Hyun-Chul Kim, LL.D.	[Professor, constitutional Law, hckim77@jnu.ac.kr]
• Shiwon Ryu, J.S.D	[Associate Prof, Intellectual Property Law, swryu@jnu.ac.kr]
• Chen-Chel Ryu, LL.D.	[Professor, Criminal Law, ccryu@jnu.ac.kr]
• Ki-Seok Moon, J.D.	[Professor, American Law, kmoon@jnu.ac.kr]
• Moon Deokmin, Ph.D.in Law	[Assistant professor, Criminal Law, moondeokmin@jnu.ac.kr]
• Byung-Ro Min, LL.D.	[Professor, Constitutional Law, byungro@jnu.ac.kr]
• In-Ho Park, LL.M.	[Professor, Commercial Law, ihpark12@jnu.ac.kr]
• Jong-Mi Park, LL.B.	[Associate Prof. Civil Law, pjm45646@jnu.ac.kr]
• Chang-Weon Seo, LL.B.	[Professor, Civil Procedure, shb@jnu.ac.kr]
• Seung-Hyeon Seong, LL.D.	[Professor, Civil Law, gaius@jnu.ac.kr]
• Oh-Sik Song, LL.D.	[Professor, Civil Law, ohsik@jnu.ac.kr]
• Sung-Po An, LL.D.	[Professor, Commercial and Trust Law, sungpo@jnu.ac.kr]
• Jean Ahn, Ph.D.	[Professor, Human Right Law, jean7475@jnu.ac.kr]
• In-Kyu Wi, LL.B.	[Professor, Criminal Law, wiinkyu@jnu.ac.kr]
• Sin-sung Yun, LL.M	[Professor, Civil Law, ssyun617@jnu.ac.kr]
• Soon-Uk Lee, LL.D.	[Associate Prof. Criminal Law, soonuklee@jnu.ac.kr]
• Seng-Woo Lee, LL.D.	[Professor, Civil Law, sengwoo@jnu.ac.kr]
• Young-Moo Lee, MA(Administration)	[Professor, Administrative Law and Public law, shushanke@jnu.ac.kr]

Name	Major
• Jun-Min Lee, LL.M	[Associate Prof. Civil Law, juminlee@jnu.ac.kr]
• Ji-hyeong Lee, LL.M.	[Professor, Civil Law, klara@jnu.ac.kr]
• Hyun-Jai Lee, LL.M.	[Professor, Civil Law, woomoon@jnu.ac.kr]
• Byung-Seok Lim, LL.B.	[Associate Prof. Civil Law, bslim11@jnu.ac.kr]
• Yoon-Soon Jang, LL.B.	[Professor, Competition Law, yunsoon1021@jnu.ac.kr]
• Byung-Seok Jeong, LL.D.	[Professor, Commercial Law, bsjeong@jnu.ac.kr]
• Hoon Jeong, LL.D.	[Professor, Administrative Law and Environmental Law, jh8341@jnu.ac.kr]
• Sang-Kyun Cho, LL.D.	[Professor, Labor Law, skcho@jnu.ac.kr]
• Seon-Yeong Cho, LL.D.	[Associate Prof. Administrative Law, sycho302@jnu.ac.kr]
• Seon-Ja Cha, LL.D.	[Professor, Law and Women, seonja@jnu.ac.kr]
• Kwang-Sun Choi, Ph.D.in Law	[Professor, Civil Procedure, choiks@jnu.ac.kr]
• Byung-Chun Choi, LL.D.	[Associate Prof. Criminal Law, bcchoi88@gmail.com]
• Hye-Sun Choi, LL.D.	[Professor, International law and International Transaction Law, chs45647@jnu.ac.kr]
• Hwan-Ju Choi, LL.D.	[Professor, Civil Procedure, hjchoi@jnu.ac.kr]
• In-Seon Ham, LL.D.	[Professor, Administrative Law, isham@jnu.ac.kr]
• Wan-Jung Heo, LL.D.	[Professor, Constitutional Law, hanjunior@jnu.ac.kr]
• Kwan-Pyo Hong, LL.B.	[Professor, Human Right, feder@jnu.ac.kr]
• Seok-han Hong, Ph.D.in Law	[Professor. Constitutional Law, shhong@jnu.ac.kr]

■ Curriculum

Mandatory Courses
Legal Research (1)
Property (3)
Civil Procedure 1 (3)
Basic Theories in Administrative Law (3)
Corporate Law (3)
Legal Writing (1)
Contracts (3)
Criminal Procedure (3)
The Constitutional Law 2 (3)
Legal Ethics (2)
Externship (1)
Moot Court (1)
Criminal Law 2 (3)
Obligations (3)

Electives
Family Law Practice (3)
Family Law (3)
Personal Data Protection Law (3)
Prosecutorial Practice Ⅰ (3)
Prosecutorial Practice Ⅱ (3)
Competition Law (3)
Cases and Doctrine of Economic Law (3)
Economic Crimes and Law (2)
Police Practice & Legal Issues (2)
Practice of Public Briefing and Writing (3)
Public Interests and Human Rights Clinic (2)
Assesment and Reconciliation of Past and Law (2)
Science and Human Rights (2)

Cases and Doctrine of International Transaction Law (3)
Practice of International Transaction Law (2)
International Trades and Law (3)
International Organizations (3)
International Law (3)
Case Law in International Law (3)
International Commerce Law (3)
Labor Contracts (3)
Advanced Legal Writing (2)
Seminar in Basic Rights (3)
Corporate Management and Taxation (3)
Law of Corporate Restructuring (2)
Labor Organizations (3)
Labor Dispute Practice (3)
German Law (2)
Basic Civil Law (3)
Case Study of Civil Law (3)
Seminar In Civil Law (3)
Practice of Civil Briefing and Writing (3)
Civil Procedure 2 (3)
Case Study of Civil Procedure (3)
Civil Procedure Practice (3)
Practice in Civil Enforcement and Attachment (3)
Trends in Civil Cases (3)
Criminology (2)
Victims of Crime and Human Rights (3)
Legal Clinic (2)
History of Legal Philosophy (3)
Law and Society (2)
Law and Women (2)
Forensic Medicine (2)
Legal Philosophy (3)
Legal Methods (3)
Insurance Law (3)
Real Estate Registration and Deposit Practice (3)
Real Property Law (3)
Torts (3)
Cyber Space and Law (2)
Human Rights and Social Welfare (3)
Case Study of Commercial Law (3)
General Principles of Commercial Law (3)
Trademark and Design Law (3)
Western Legal History (3)
Taxation (3)
Tax Litigation Practice (3)
Seminar in Consumer Law (2)
Human Rights and Minorities (2)
Trusts (2)
Advanced Externship (1)
Women and Human Rights (3)
Requirement Facts (2)
Securities Law (3)
Life Science Ethics and Medical Criminal Law (2)
History of Human Rights Development (3)
Human Rights Policy System and Practice (2)
Japanese Labor Law (3)
Japanese Law (2)
Japanese Private Law (2)
Japanese Constitutional Law (3)
Financial Market Law (2)
Taxation of Estates, Gifts and Property Transfers (3)
Copyright Law (3)
Understanding of Traditional Legal Culture (2)
Spirits of Traditional Laws (3)
Law and Political Process (3)
Chinese Law (2)
Local Government Law (3)
Intellectual Property Law (2)
Anti-Discrimination Law (3)
Integrated Civil Law Seminar (3)
Seminar in Integrated Commercial Law (3)
Criminal Law in specific fields (3)
Patent Law (3)
Patent Litigation Practice (2)
Violence and Law (3)
Administrational Reliefs Law (3)
Particulars of Administrative Law (3)
Case Study of Administrative Law (3)
The Constitutional Law 1 (3)
Case Study of the Constitutional Law (3)
Constitutional Procedure (3)
Modern Contracts (2)
Criminal Law 1 (3)
Exercise of Criminal Law (3)

Practice of Criminal Briefing and Writing (3)
Case Study of Criminal Law and Procedure (3)
Exercise of Criminal Procedure Law (3)
Criminal Law Practice (3)
Criminal Policies (3)
Environmental Law (3)
Environmental Litigation Practice (3)
Case Study of Corporate Law (3)
American Civil Procedure Rules & Practice (2)
American Constitutional Law (2)
American Criminal Law & Procedure (2)
American Private Law (2)
American Public Law (2)
American Securities Law (2)
Corporate Accounting Law & Practice (2)
EU Law (2)
International Arbitration Law & Practice (2)
International Human Rights (2)
Law & Economics (2)
Legal English (2)
Negotiation (2)
Protection of Economic, Social and Cultural Rights (2)
The Law of Business? Enterprises (2)
The Law of Contract in America (3)
The UN and the rights of the child (2)
The WTO (2)
Transnational M&A (2)
Trust & Estate (2)

School of Dentistry

Contact Information
Phone: 062-530-5805~9
Fax: 062-530-5810
E-mail: cdcnu@jnu.ac.kr
URL: http://dent.jnu.ac.kr

School of Dentistry

The Chonnam National University (CNU) School of Dentistry was established with the purpose of training oral health professionals equipped with fundamental knowledge, skills, and the spirit of service to meet the needs of the nation and the local community.

The CNU School of Dentistry takes pride in and maintains a sense of mission in that it has produced 2,779 graduates and 1,198 master's and doctoral degree graduates. These alumni have been playing an important role in national and social developments, as well as in bringing prestige and growth to our School of Dentistry.

The transition of the Dental College to the School of Dentistry in March 1, 2005 laid the foundation for growth in quantity and quality. A combined dental hospital and clinical education center building with state-of-the-art facilities and high-tech dental equipment has been built on the Yongbong Campus. This building is 18,624 square meters in size and is in harmony with the surrounding woodland, creating an eco-friendly environment and emerging as a world-class dental school. In addition, the Educational Research Center was completed in 2020 next to the Clinical Education Center and is expected to facilitate collaboration between basic and clinical research.

The Chonnam National University School of Dentistry operates from the dental science laboratories (Building No. 2) with high-tech laboratory and practical equipment; from the Education Research Center (Building No. 3) where undergraduate and graduate education, dental science research, and clinical trials take place; and from the Chonnam Dental Care Center (CDCC) and Dental Hospital with state-of-the-art dental equipment and outstanding dental staff. The school runs the largest National Dental Technician Clinical Skills Testing Center in the nation with treatment by students to provide clinical training for its students. The school also runs the nation's finest testing center in preparation for the National Dental Technician Clinical Skills Test and is making every effort in training talented dentists by maintaining state-of-the-art educational equipment such as the simulation system and through continuous procurement of the latest dental practical equipment.

The CNU School of Dentistry's Department of Dental Science consists of two faculties - the Faculty of Basic Science in Dentistry and the Faculty of Clinical Dentistry. The Faculty of Basic Dentistry includes the fields of Oral Anatomy, Dental Biomaterials, Oral Biochemistry, Oral Microbiology, Oral Pathology, Preventive and Public Heath Dentistry, Pharmacology and Dental Therapeutics, Dental Science Education,

and Dental Biomaterials. The Faculty of Clinical Dentistry includes the fields of Orthodontics, Oral Medicine and Oral Diagnosis, Oral and Maxillofacial Radiology, Oral and Maxillofacial Surgery, Pediatric Dentistry, Dental Anesthesiology, Conservative Dentistry, Prosthodontics, Clinical Dentistry and Periodontology. The Department of Dental Science puts emphasis on early clinical study and offers an integrated curriculum that links various courses to provide the professional dental education that the current times demand.

The CNU School of Dentistry's Department of Dental Science is a single-department graduate school that consists of talented teaching staff and around 280 outstanding students. Its integrated program with a quota of 35 students began in 2014. Under this program, a student enters the CNU School of Dentistry after graduating from high school and completes the three-years undergraduate curriculum followed by a four-year graduate curriculum. Another integrated program is available where one entering graduate school student is selected to earn both master's and doctorate degrees by undertaking seven years of required coursework and dissertation writing.

Under the current school administration, the academic staff has been bolstered by hiring a large number of talented professors. Its faculty of 56 (48 full-time professors and 8 assistants) are putting forth their best efforts in improving the quality of education and research capability, as well as contributing to internationalizing education through an increased number of international professors and offering overseas training opportunities for students.

The school was selected as a Brain Korea 21 research project grantee in 2006 producing excellent research achievements and making great contributions in training dental research personnel. Also, the school was the first dental hospital to be selected by the Ministry of Health and Welfare in February 2009 to establish the Dental Clinic for Persons with Special Needs. This became a big turning point in providing dental care services to the disabled in the local region. This also created plenty of field training opportunities for the students in dealing with disabled patients and created opportunities for serving the local community. The Oral Care Center continues to provide dental services to disabled patients of the region today.

From September 2011 to August 2018, the Research Center for Biomineralization Disorders (RCBD) had been selected annually as the leading MRC research center by the Ministry of Education, Science, and Technology and by the National Research Foundation of Korea. For its research in biomineralization, the RCBD has received a research grant of one billion won annually for seven years. The research center has been selected again in September 2019 and won a research grant of 10.5 billion won for the next seven years. The RCBD is expected to play a crucial role in developing new technology for the medical and dental industry in the future.

CNU signed a Memorandum of Understanding (MOU) for the development of the National Examination Practical Test Center for Dentists in 2021 and was selected as a national examination practical test center. The CNU Dental Practicum Test Center is composed of 9 rooms with a total floor area of 311.58 m^2. It is equipped with advanced educational facilities, including simulation practice tables, dental unit chairs,

and an AV system in the clinical practical test room to provide students with high-level education and practical training.

Graduates of the school who pass their National Dentist Licensing Examination may contribute to the national oral health as clinicians and may work as professionals at oral health education and research centers. The CNU School of Dentistry is devoted to training talented dentists and oral health professionals by providing quality dental education.

■ Educational Goals

Our goal is to train oral health professionals equipped with fundamental knowledge, skills, and the spirit of service to meet the needs of the nation and the local community.

We aim to:

1. Develop an open mind and a sense of professionalism to be able to communicate with others efficiently. (**Open-minded professionalism**)
2. Provide a fundamental understanding of the human body and train students with professional knowledge and skills to be able to diagnose, treat, and prevent oral and maxillofacial diseases. (**Excellent dental education**)
3. Develop creative research capabilities and information utilization skills regarding dentistry and related disciplines. (**Creative ability**)
4. Develop skills and abilities needed to actively participate and serve in improving the public oral health of the nation and the local community. (**Comprehensive dental and social service**)

■ Degree Requirements

Course Registration and Graduation

Each student is required to submit his/her application card for course enrollment to the Dean through the supervising professor during the course registration session of each semester.

The academic year is from the first day of March to the last day of February the following year. The academic year is divided into two semesters: the first semester is from March 1st to the end of August, and the second semester is from September 1st to the end of February the following year. Summer and winter courses are held for four weeks during each vacation period.

There are final exams, midterm exams, spot tests, special tests, graduation exams, and make-up exams. Midterm exams, final exams, and spot tests are administered to students in regular courses.

For graduation, 162 credit hours must be earned. The graduation of students who have completed eight semesters or more, who possess the appropriate GPAs, and whose graduation papers or exams were satisfactory, is decided by faculty of the School of Dentistry to achieve a Doctorate of Dental Science degree.

After passing the National board Exam for general dentists, graduated students are qualified to practice work as practicing dentists.

■ What Do You Study?

First Year (Major Requirement)

Public health dentistry
Oral histology
Crown and bridge prosthodontics1
Anesthesiology
Operative dentistry1
Medicine
Human Immunology
Practice of human microbiology and pharmacology
Human microbiology
Human pathology
Practice of human pathology
Practice of human physiology/biochemistry
Human physiology
Human biochemistry
Human pharmacology
Human histology
Practice of human histology
Human anatomy
Practice of human anatomy
History of dentistry
Dental materials1
pratice of dental materials
Dental anatomy and occlusion 1
Dental anatomy and occlusion 2
Pratice of dental anatomy and occlusion
Periodontology1

Second Year (Major Requirement)

Orthodontics1
Practice of orthodontics1
Oral pathology
Practice of oral pathology
Oral and maxillofacial radiology1
Oral and maxillofacial rodiology2
Oral and maxillofacial surgery1
Oral and maxillofacial surgery2
Practice of oral and maxillofacial surgery
Oral diagnosis
Partial denture prosthodontics1
Partial denture prosthodontics2
Practice of partial denture prosthodontics1
Endodontics1
Endodontics2
Practice of endodontics1
Practive of endodontics2
Crown and bridge prosthodontics2
Practice of crown and bridge prosthodontics1
Operative dentistry2
Operative dentistry3
Practice operative1
Practice of operative dentistry2
Pediatric dentistry1
Pediatric dentistry2
Practice of pediatric dentistry1
Practice of pediatric dentistry2
Preventive dentistry
Practice preventive dentistry
Complete denture prosthodontics1
Complete denture prosthodontics2
Practice of complete denture prosthodontics1
Dental local anesthesiology
DentistRoleinSociety
Periodontology2
Practice of periodontology

Third Year (Major Requirement)

Infection control
Orthodontics2
Practice of orthodontics2
Oral medicine1
Oral medicine2
Oral and maxillofacial radiology3
Oral and maxillofacial surgery3
Oral and maxillofacial surgery4
Partial denture prosthodontics3
Practice of partial denture prosthodontics2
Endodontics3
Crown and bridge prosthodontics3
Practice of crown and bridge prosthodontics2
Geriatric dentistry
Methods in Scientific Research1

Methods in Scientific Research2
Craniomandibular disorders and orofacial pain
Operative dentistry4
Pediatric dentistry3
Clinical communications
Clinical oral and maxillofacial radiology1
Clinical pathology
Clinical practice1
ClinicalPractice(Subinternship)2
Complete denture prosthodontics3
Practice of complete denture prosthodontics2
Dental therapeutics
DentalEthics
Dental materials2
Periodontology3

Fourth Year (Major Requirement)

Field study
Forensic dentistry
Medical laws
Adult orthodontics
Esthetic dentistry
Oral and maxillofacial plastic surgery
Practice of clinical anatomy
Clinical oral pathology
Clinical oral and maxillofacial radiology
Clinical oral and maxillofacial surgery
Clinical partial denture prosthodontics
Clinical crown and bridge prosthodontics
Clinical conservative dentistry
Clinical pediatric dentistry
Objective structured clinical examination
Clinical practice3
ClinicalPractice(Subinternship)4
Clinical Case Study
Clinical complete denture prosthodontics
Clinical periodontology
Case Discussion
Volunteer Service and the Community
Dental management
Dental implantology
Practice of implantology

■ Graduate Courses

Methodology for Dental Research (Ⅰ)
Methodology for Dental Research (Ⅱ)
Statistics in Dentistry (Ⅰ)
Statistics in Dentistry (Ⅱ)
Current Topics of Dental Science (Ⅰ)
Current Topics of Dental Science (Ⅱ)
Current Trends of Dental Science (Ⅰ)
Current Trends of Dental Science (Ⅱ)
Research for the Master's or Doctoral Degree
Clinical Perspective of Dental Nutrition
Advanced Course of Oral Biochemistry
Experimental Clinical Oral Biochemistry (Ⅰ)
Molecular Biology in Oral Cancer Cell
Molecular Biology in Dentistry
Orofacial Pain
Physiology of Hard Tissue and Temporomandibular Joint
Salivary Physiology
Dental Neurophysiology
Taste, Smell and Speech
Chemotherapy on Oral Infectious Disease
Molecular Pharmacology in Dentistry
Pharmacological Control of Orofacial Pain
Genetic Disorders in Dentistry
Drug and Gene Therapy on Oral Cancer
Microbial Aspects of Periodontal Disease
Histophysiology of Periodontal Disease
Advanced Clinical Periodontology
Current Topics in Periodontology
Esthetic Periodontics
Nonsurgical Periodontal Therapy
Pain Control
Outpatient Anesthesia
Fluid and Electrolyte Balance

Cardiopulmonary Resuscitation
Patient Monitoring
Functional Jaw Orthopedics
Growth and Development of Oromaxillofacial Tissue
Behavior Management of Children
Preventive Dentistry of Children
Team Approach of Cleft Lip and Palate
Oral Microbiology
Oral Immunology
Experimental Oral Microbiology
Experimental Oral Immunology
Clinical Oral Microbiology
Central Nervous System in Dentistry
Cell Biology in Dentistry
Biology of Dental Hard Tissue
Applied Anatomy of the Head and Neck
Advanced Oral Histology
Gerontological Biology in Dentistry
Growth of Skull after Birth
Advanced Hard Tissue Biology
Technics in Molecular Biology
Experiment of Oral Pathology
Oncology of Oral Cavity
Pathology of Dental Caries
Pathology of Pulpal and Periapical Diseases
Pathology for Anomaly in Maxillofacial Region
Diseases of Salivary Glands
Immunopathology of Oral Cavity
Review of Recent Studies in Oral Pathology
Colloquium in Clinical Oral Pathology
Advanced Oral and Maxillofacial Surgery
Oral Anomaly
Orthognathic Surgery
Maxillofacial Reconstructive Surgery
Practice in Functional Rehabilitation of TMJ
Transplantation Immunology
Maxillofacial Traumatology
Current Topics of Oral and Maxillofacial Surgery
Surgical Orthodontic Treatment
TMJ in Orthodontics
Periodontal Orthodontic Interrelationship
Case Planning Seminar
Orthodontic Treatment for Orthognathic Surgery
Mixed Dentition Treatment
Retention and Relapse
Growth Modification in Orthodontics
Orthodontic Management of Prosthodontic Patients
Esthetic Aspects in Orthodontics
Advanced Dental Materials
Dental Materials Science
Dental Polymer Materials
Current Topics of Dental Materials
Metallic Dental Materials Dental Ceramics
Dental Impression Materials
Dental Cements
Esthetic Restorative Materials
Dental Implant Materials
Properties and Evaluation of Dental Materials
Biocompatibility Testing of Dental Materials
The Dental Pulp Biology
Endodontic Microbiology
Cardiology
Plastic Restoration
Esthetic Dentistry
Pulp and Periapical Disease
Endodontic Immunopathology
Ceramic Restoration
Modern Endodontic Therapy
Endodontic Microsurgery
Current Topics in Canal Obturation
Current Topics in Canal Shaping
Dental Implantology
Occlusion
Gerodontics
Theory and Practice of Fixed Prosthodontics
Removable Partial Prosthodontics
Esthetic Prosthodontics
Precision Attachment in Removable Prosthodontics
Modern Dental Ceramics
Periodontic and Prosthodontic Dentistry
Modern Practice in Crown and Bridge Prosthodontics
Modern Removable Partial Denture
Prosthodontic Treatment for Edentulous Patient

Advanced Oral Diagnosis
Advanced Oral Medicine
The Theory of Maxillofacial Pain-dysfunction
Study on Oral Diagnosis & Oral Medicine
Oral Diagnosis and Treatment Plan
Diagnosis of Dental Emergency
Theory of Oral Soft Tissue Lesion
Examination for Oral Diagnosis
Myology of Oral and Mandible
Clinical Practice of Oral Diagnosis
Clinical Practice of Oral Diagnosis
Theory of Craniofacial Pain
Oral Radiology
Radiographic Interpretation
Oral Radiographic Technique
Specialized Radiographic Techniques
TMJ Radiology
Radiation Biology
Salivary Gland Imaging
Oral & Maxillofacial Radiographic Therapy
Oral & Maxillofacial Radiographic Anatomy
Radiation Dosimetry & Protection
Oral & Maxillofacial Sonography
Oral and Maxillofacial Imaging
Prevention of Oral Disease
Dental Health Statistics
School Dental Health
Oral Epidemiology
Community Dental Health
Dental Health Programmity
Adult Dental Health
Geriatric Dental Health
Child Dental Health
Dental Health Administration
Dental Manpower Development
Dental Care Social Insurance System

■ Academic Departments and Faculties

Basic Science in Dentistry

▷ Department of Oral Microbiology

Faculty

Professor / Kang, In-Chol
Professor / Ohk, Seung-Ho

Research areas

Molecular diagnosis of oral bacteria
Cellular microbiology of periodontal disease

The courses offered in this specialty are Human Immunology, Human Microbiology, and Microbiology Practice. Human Immunology studies the composition and behavior of the immune system that is responsible for our body's defense against microbes and immune disorders. Human Microbiology studies the characteristics of pathogenic bacteria and viruses, as well as the diagnosis and treatment of various infectious diseases. It puts particular emphasis on microbes related to oral diseases (dental caries, periodontitis, etc). In Microbiology Practice, students will experiment with bacterial staining, microscope observations, pure culture methods, and antibiotic susceptibility testing. Students will be able to develop skills for accurate diagnosis and treatment of various infectious diseases including oral diseases.

▷ Department of Oral Pathology

Faculty

Professor / Kim, Ok-Jun
Associate Professor / Kim, Young

Research areas

Oral and maxillofacial cancer
Photobiology application to dentistry
Stem cell and cell free therapy for degenerative disease
Molecular imaging and target probe application for various disease

Differential expressed genes and bio-marker screening in oral & maxillofacial tumor

Oral Pathology is an applied medicine specialty that connects basic medicine with clinical medicine. It studies the changes in cells and tissues to identify the causes and pathogenesis of diseases, and also studies diseases occurring in the oral cavity and its surrounding structures. It aims to provide pathological diagnosis of biopsies and surgically operated tissues conducted in other departments and hospitals. Related laboratory practice will provide histological understanding and clinical experience.

▷ Department of Oral Physiology

Faculty

Professor / Kim, Won-Jae
Professor / Jung, Ji-Yeon

Research areas

Role of autophagy in oral biology
Differentiation from adult neural stem cells

The purposes of Oral Physiology Laboratory are to make undergraduate students in the School of Dentistry understand the cellular functions and regulating mechanisms in which life phenomena are normally involved in functions and the interaction of tissues or organs of the human body. In our lab, researches in progress are as follows;

1. Autophagy regulation in dentin formation and inflammation
2. Proliferation and differentiation mechanism of adult neuronal stem cell

Human Physiology is the study that explains the functions of cells and organs that make up the human body. It is the fundamental discipline to understanding the physiological mechanisms of life phenomena and is the basic dentistry specialty in understanding clinical courses and other related subjects. In Human Physiology Practice, students will learn about the biochemical properties of cells and biomaterials that make up the human body and the physiological mechanisms related to the maintenance of homeostasis in the human body.

▷ Department of Oral Biochemistry

Faculty

Professor / Lee, Tae-Hoon
Associate Professor / Park, Sang-Wook

Research areas

General biochemistry of oral biology
Redox mediated cell signaling & disease

The oral tissues of the craniomaxillofacial area can be largely divided into hard and soft tissues. Oral Biochemistry studies the biochemical metabolic processes of the hard and soft tissues that make up the craniomaxillofacial area. It deals with various biochemical metabolic processes and metabolic abnormalities, such as carbohydrates, lipids, and protein metabolism in tissues, to discover a connection to the occurrence of oral diseases.

▷ Department of Oral Anatomy

Faculty

Professor / Lee, Eun-Joo
Professor / Kim, Sun-Hun
Professor / Kim, Min-Seok

Research areas

Hard tissue biology
Direct lineage reprogramming
Identification of novel genes in tooth development

The courses covered in the Oral Anatomy specialty include Human Anatomy, Applied Human Anatomy, Histology, Oral Histology, Dental Shapes and Occlusion, along with related laboratory practice. Education on human anatomy as a whole deals with the normal structure of the human body, which is the basis of pathology, and aims to lay the foundation for dental clinical education and its laboratory practice.

▷ Department of Preventive and Public Health Dentistry

Faculty

Professor / Choi, Choong-Ho
Associate Professor / Chung, Ki-Ho

Research areas

Oral epidemiology
Prevention of oral diseases
Anti-plaque and anti-gingivitis agents
Development of tooth pastes and oral hygiene products

Preventive Dentistry studies the principles and methods of oral disease prevention for individual patients, whereas Public Oral Dentistry is that specialty that promotes oral health for the local community and population. Through fundamental research and clinical practice on oral disease prevention, we contribute to public oral health by seeking and creating ways to improve the quality of life of the people and by removing potential risk factors of oral diseases,

▷ Department of Dental Materials

Faculty

Professor / Park, Yeong-Joon
Professor / Song, Ho-Jun

Research areas

Evaluation of biocompatibility for dental materials
Development of advanced dental products including restorative and implant materials

Dental Materials is a basic program within the Department of Dental Science with the aim of understanding the physical and chemical properties of dental materials used in dental clinics and to impart knowledge through academic systematization of the differences in clinical applications and handling methods according to the characteristics of the material. The department has manufacturing equipment and various analytical laboratory devices for material experiments, and has all the equipment necessary for laboratory practice for undergraduate and graduate students. By implementing cutting-edge technology, the department puts a focus on developing new composite resins and dental alloys, on developing a multi-purpose hydrophilic dentin binder, on research for surface modification of implant materials, on research for highly effective dental polyvinyl siloxane impression materials, and on research for biocompatibility assessment of dental materials.

▷ Department of Pharmacology and Dental Therapeutics

Faculty

Professor / Koh, Jeong-Tae
Professor / Lee, Shee-Eun
Professor / Ryu, Je-Hwang

Research areas

Molecular bone biology
Vaccine development and mucosal immunology
Pathogenic mechanism of hard tissue degenerative diseases

Dental Pharmacology aims to provide the skills for proper clinical use of drugs by understanding (a) the general principles of drug interaction based on basic medicine, (b) the pharmacological interaction of drugs with the autonomic nervous system, central nervous system, various organ functions, and neurotransmitters, and (c) the pharmacological mechanism, side effects, and toxicity of chemotherapeutic agents.

▷ Department of Dental Science Education

Faculty

Professor / Lee, Seok-Woo
Professor / Lim, Hoi-Soon

Research areas

Development and implementation of novel didactic methodology

Enhancing students' involvement in academic, research, and service activities
Development and managing courses related to medical/dental humanities

The Dental Science Education Department was established by Dean Won-man Oh in 2005 during the conversion period into the School of Dentistry for the students entering the graduate school after completing their four-year undergraduate program. The department aims to train oral health professionals with the knowledge, skills, and spirit of service to meet the needs of the nation and the local community. Students will learn about various human interactions in the medical field (i.e., doctor-patient interaction and interaction between colleagues) and be able to apply humanities such as history, culture, ethics, philosophy, and management of medicine in real-life situations.

Clinical Dentistry

▷ Department of Oral and Maxillofacial Surgery

Faculty

Professor / Oh, Hee-Kyun
Professor / Park, Hong-Ju
Professor / Kook, Min-Suk
Associate Professor / Jung, Seung-Gon
Associate Professor / Ryu, Jae-Young

Research areas

Oral cancer
Orthognathic surgery
Craniofacial deformity
Maxillofacial plastic and Reconstructive Surgery

The Department of Oral and Maxillofacial Surgery is the surgical specialty in dental clinics that includes surgical diagnosis, esthetic treatment, and the functional treatments of diseases, injuries and defects of intraoral organs such as teeth, gingiva, oral mucosa and tongue, and reconstructive treatment of jaws, faces, heads, and necks. Oral and maxillofacial surgeons are trained to treat and care for patients who have maxillofacial injuries, facial deformities, infections, dental implants, cleft lips and palates, salivary gland disease, oral mucosal disease, and the cyst of the jaw. Department of Oral and Maxillofacial Surgery is in the process of researching on oral cancer, maxillofacial reconstructive surgery, craniofacial deformity, cleft lip and palate, and the basic study and clinical treatment of dental implants, and TMJ disorder.

▷ Department of Orthodontics

Faculty

Professor / Cho, Jin-Hyoung
Professor / Lee, Kyung-Min
Associate Professor / Oh Min-Hee

Research areas

Early Orthodontic Treatment
Adult Interdisciplinary Treatment
Craniofacial Growth and Development
3D Imaging Analysis using cone-beam CT
3D Digital Orthodontics using Laser Scan and Stereophotogrammetry

Orthodontic treatment is the field of dentistry that treats malocclusion with normal occlusion. It consists of orthodontic treatment, which moves individual teeth to create an even dentition, and orthopedic treatment, which induces harmonious growth of the maxilla and mandible in growing children who have a non-esthetic appearance due to a mismatch of the maxilla and mandible. have. It is the newest and most specialized field of dentistry, making it the first specialty in dentistry to be established.

In the Orthodontics speciality, professors and former trainees are striving for academic excellence and high-quality treatment, and they are playing a leading role in domestic clinical orthodontics. By introducing the concept of interdisciplinary treatment into clinical practice for the first time in Korea, it is providing the

best treatment for patients and has expanded its treatment area early to include advanced orthodontic fields such as lingual correction and esthetic correction, which have recently become subjects of interest. In particular, in the field of adult orthodontics, which is orthodontic treatment for adults with tooth defects along with periodontal disease, it is recognized domestically and abroad for its accumulated know-how through cooperation with periodontology and prosthetics.

▷ Department of Prosthodontics

Faculty

Professor / Park, Sang-Won
Professor / Lim, Hyun-Pil
Professor / Yun, Kwi-Dug
Associate Professor / Park, Chan
Assistant Professor / Jang, Woo-Hyung

Research areas

CAD-CAM digital dentistry
Esthetic ceramic restorative material
Implant surface treatment & bone material research

Prosthodontics is a field of clinical dentistry that aims to restore functional impairment and esthetics that occur when there is substantial loss due to dental caries and trauma, or when any number or all teeth are completely missing. It is a field that is very dentist-centric in nature regarding treatment and research. It includes Dental Bridges, Removable Partial Prosthodontics, Complete Denture Prosthodontics, Occlusion, Implantology, Geriatric Dentistry, and their respective clinical practice. The department offers 47 credits and a total of 140 hours of lecture and laboratory practice, which is approximately 29% of the total credits offered by the School of Dentistry. The department is committed to training outstanding dentists through its lectures and laboratory practice.

▷ Department of Periodontology

Faculty

Professor / Kim, Young-Joon
Professor / Kim, Ok-Su

Research areas

Genotyping in periodontal diseases patients
Surface characteristics and bioactivity of titanium surface
Relationship between the periodontal diseases and systemic diseases

The Periodontology speciality aims to train medical professionals who can accurately diagnose and treat periodontal and oral soft tissue diseases. The specialty currently offers technical education and treatment on calculus removal and root conditioning, periodontal valve surgery for progressed periodontal lesions, bone graft and tissue-guided regeneration, periodontal plastic surgery including mucogingival surgery, aesthetic periodontal surgery, and intraosseous dental implantation. Successful treatment results are obtained in complex patient cases through cooperative treatment with other clinical fields.

▷ Department of Conservative Dentistry

Faculty

Professor / Oh, Won-Man
Professor / Hwang, In-Nam
Professor / Hwang, Yun-Chan
Professor / Chang, Hoon-Sang
Associate Professor / Lee, Bin-Na

Research areas

Pulp-dentin regeneration
Color of composite resin
Treatment of pulp inflammation

The Conservative Dentistry speciality provides fillings to restore the function of teeth by repairing diseases occurring in the hard tissue of the teeth, and it provides esthetic restoration to restore esthetic defects caused by hard tissue diseases of the teeth. It deals with the field of endodontic therapy for the treatment of pulp and apical diseases. Conservative dentistry is a basic study of

dental clinical practice and is a required program that all dentists must acquire. We are proud of the goals we have achieved.

▷ Department of Oral Medicine

Faculty

Professor / Kim, Byung-Gook
Professor / Kim, Jae-Hyung
Assistant Professor / Im, Yeong-Gwan

Research areas

Orofacial Pain
Oral Mucosal Diseases
Temporomandibular Disorders

Oral Medicine is the field of clinical dentistry that treats various diseases occurring in the oral and maxillofacial area through medical treatment. Diseases covered in the Oral Medicine specialty include temporomandibular disorders, oral-facial pain, oral mucosal diseases, dry mouth, bad breath, taste disorders, oral movement disorders, snoring, and sleep apnea. The discipline also deals with the dental care of systemic patients and the dental application of lasers. Through courses in forensic medicine and in health and medical regulations, students will acquire knowledge and literacy as healthcare professionals.

▷ Department of Pediatric Dentistry

Faculty

Professor / Choi, Nam-Ki
Professor / Kim, Seon-Mi

Research areas

Restorative & Preventive Treatment
Treatment for Handicapped Children
Preventive & Interceptive Orthodontic Treatment

▷ Department of Oral and Maxillofacial Radiology

Faculty

Professor / Yoon, Suk-Ja
Professor / Lee, Jae-Seo

Research areas

3D Dental Imaging
Sialographic examination
Oral and Maxillofacial Diagnosis

Students will learn about (a) the discovery of the x-ray, its physical properties and interaction with materials and devices that generate and control x-rays, (b) the source and amount of natural radiation, and its effect on the living, (c) ways to induce desired radiographs that accurately show anatomical structures and pathological conditions not observed with the human eye by using x-rays, (d) special imagery and its characteristics, and (e) methods for reading radiographs and understanding the anatomical structures and diseases represented on radiographs for proper diagnosis.

▷ Department of Anesthesiology

Faculty

Assistant Professor / Jang, Eun-A

Research areas

Critical care medicine
Respiratory care
Pediatric anesthesia

Students will learn the basics of anesthesiology, the pharmacological properties and clinical applications of drugs used for anesthesia, fluid and electrolyte therapy, blood transfusion, and CPR to be able to discuss methods to relieve pain during patient treatment or surgery, to induce psychological stability, and prevent and cure complexities that can occur during patient treatment. In addition, the causes, symptoms, treatment, and prevention of diseases that can occur after anesthesia are discussed.

Graduate School of Data Science

Contact Information
Phone: +82-62-530-5772~4
Fax: +82-62-530-5779
E-mail: dscnu@jnu.ac.kr
URL: https://ds.jnu.ac.kr/

History

2021. 02. CNU - Seoul National University - Gwangju Metropolitan City signed a business agreement (MOU) for the development of regional innovation platform business and data science.
2021. 07. CNU - Seoul National University - Kyungpook National University signed business agreement (MOU) for data science education
2021. 09. Establishment Promotion Committee of the Graduate School of Data Science was launched
2021. 10. Opening Preparation Team of the Graduate School of Data Science was launched
2021. 10. Approval for establishment of Graduate School of Data Science (Ministry of Education)
2022. 03. Opening of the Graduate School of Data Science (1st Dean: Professor Kim Soo-hyung)
2022. 05. Opening ceremony of Graduate School of Data Science was held
2022. 06. Signed a business agreement (MOU) with Korea Electric Power Corporation Gwangju-Jeonnam Headquarters
2022. 12. Signed a business agreement (MOU) with Gwangju Artificial Intelligence Academy / Smart Human Resources Development Institute
2023. 01. Signed a business agreement (MOU) with Megaworks
2023. 04. Selection of Data Science Convergence Talent Training Project: Project period (total project amount): 2023 to 2029 (33.7 billion KRW)

Educational Goal

- Through systematic learning of computer science and mathematics/ statistics theory, trainees including non-majors are fostered to become data analysis experts who can be put into practice.
- The program cultivates practical experts who can solve problems by combining data science in various domains.

Administrators

Position	Rank	Name	Note
Dean	Professor	Kim Soo-hyung	
Vice-Dean	Assistant Professor	Euom Ieck-chae	

Faculty

Category	Faculty				Staff		Total
	Professor	Associate Professor	Assistant Professor	Adjunct Professor	Full-time	Concurrent Position	
Number of Individuals	1	3	5	24	1	2	36

Enrollment capacity by major

50 students per master's program

Degree Requirements

- For admission, application is available regardless of undergraduate degree (field, major) if the applicant has earned a bachelor's degree or is recognized by law as having an equivalent or higher academic background.
- The enrollment period is 2 years, and a Specialized Master's Degree in Data Science is awarded if the candidate earns an average grade of B (3.0) or higher, submits a thesis for the degree after completing 24 credits or more in the thesis track, and earns 30 or more credits in the project track.

What Do You Study?

Subject Name	credit	Subject Name	credit
Data Science Programming	3	Topics in Statistics for Data Science	3
Data Science Mathematics	3	Topics in Computing for Data Science	3
Data acquistion and visualization	3	Image Processing	3
Software Platforms for Data Science	3	Natural Language Processing	3
Machine Learning	3	Field Practice and Learning	3
Statistics for Data Science	3	Creative Interdisciplinary Capstone Project	3
Deep Learning	3	Advanced Machine Learning	3
Ethics and Law for Data Science	3	Advanced Statistics for Data Science	3
Interdisciplinary Thesis Study	3	Advanced Deep Learning	3
Machine Learning and Financial Engineering	3	Applied Data Science and Machine Learning for Cybersecurity	3
Data Mining for Agriculture	3	IoT Data Analytics	3
Advanced Statistics for Data Science	3		3

■ Faculty Members

Position	Name	Field of Study	Position	Name	Field of Study
Assistant Professor	Kang Byung-jeon	Medical Data	Associate Professor	Bang Do-yeon	Soft Robotics
Associate Professor	Seong Jin-taek	Artificial Intelligence	Professor	Lim Hoi-jeong	Natural Language Processing and Big Data Analysis
Assistant Professor	Euom Ieck-chae	Privacy Security	Associate Professor	Um Tai-won	IoT Data Analysis
Assistant Professor	Jeon Jae-gi	Financial Data Analysis	Assistant Professor	Choi Tae-jong	Evolutionary Computing
Assistant Professor	Hong In-ho	Computational Social Science			
Adjunct Professor	Kim Soo-hyung	Artificial Intelligence	Adjunct Professor	Kim Sung-eun	Japanese Language and Literature
Adjunct Professor	Kim Yong-kwan	Physical Education	Adjunct Professor	Kim Min-soo	Statistics
Adjunct Professor	Kim Kyung-baek	Software	Adjunct Professor	Na Myung-hwan	Big Data
Adjunct Professor	Na In-seop	Artificial Intelligence	Adjunct Professor	Ryu Geun-pil	Public Administration
Adjunct Professor	Park Seok-kang	Business Administration	Adjunct Professor	Park Il-woo	Biomedical Engineering
Adjunct Professor	Park Jin-kyung	Nursing	Adjunct Professor	Shin Choon-sung	Immersive Media
Adjunct Professor	An Min-jeong	Nursing	Adjunct Professor	Yang Hyung-jeong	Artificial Intelligence
Adjunct Professor	Yoo Sun-yong	Computer Information and Communication	Adjunct Professor	Yun Jin-hyeon	Animal Welfare
Adjunct Professor	Lee Sang-hyun	Horticulture and Life Science	Adjunct Professor	Lee Joon-woong	Industrial Engineering
Adjunct Professor	Joung Seul-gi	Industrial Engineering	Adjunct Professor	Choi Deok-jai	Software
Adjunct Professor	Han Seung-hwoi	Mechanical Engineering	Adjunct Professor	Han Tae-ho	Agriculture
Adjunct Professor	Huh Jeong-gyu	Big Data	Adjunct Professor	Heo Jin-a	Cultural Anthropology and Archeology

IX. Special Graduate Schools

Graduate School of Education

Contact Information
Phone: +82-62-530-2572
Fax: +82-62-530-2302
URL: http://edutop.jnu.ac.kr

■ Graduate Studies in the Graduate School of Education

The Graduate School of Education (GSE) was established in 1975 for the purpose of retraining current teachers in modern educational theories and training prospective teachers in well-oriented, appropriate programs. GSE programs provide current and prospective teachers with creative problem solving abilities associated with their major studies and educational theories in order to instil passion in their instruction. Therefore, GSE graduates are expected to be professional teachers and educators equipped with the ability of leading regional education systems and contributing to the future of educational and social development according to the demand of the times.

There are 22 master's degree programs offered by the GSE, including Counseling Psychology, Korean Education, English Education, Mathematics Education, Physics Education, Chemistry Education, Biology Education, Earth Science Education, Music Education, Fine Art Education, Physical Education, Home Economics Education, Early Childhood Education, Computer Education, Electrical Electronic and Communication Education, Nutrition Education, Special Education, Librarian Education, Integrated Social Studies Education, Artificial Intelligence Convergence, Humanities-Social Science Convergence, School Education Reconstruction.

■ Degree Requirements

Students holding a bachelor's degree or its equivalent are eligible to apply for admission. Courses are offered during the summer and winter vacation periods. The length of the coursework is two years and six months or greater.

The minimum number of credits required for completion of the Master's Degree of Education is 27. A student may not take more than 6 credits per semester of his/her major courses.

A student whose field of specialization is different from his or her undergraduate major is required to earn a maximum of 15 additional credits in relevant undergraduate courses. Successful applicants should have CGPAs of C or higher. A total of up to 9 credits earned at other universities and colleges can be transferred to the master's degree program of the GSE.

A grade of C or better is acceptable for courses in the master's degree program, but the CGPA of graduate students should be a C or higher in order to be awarded the master's degree. Those with equivalent qualifications, as well as international students, can be accepted as special students through relevant examinations.

■ Professors

Faculty members of the GSE are usually composed of 3 to 5 professors from each department of the College of Education.

■ What Do You Study?

Artificial Intelligence Convergence

Topics In Artificial Intelligence
Artificial Intelligence Programming
Convergence Education in Digital Era
Mathmatics for Artificial Intelligence
Instructional & Learning Theories in AI Application
Instructional Development for Social Problem Solving
Topics in Machine Learning
esign and Development of Instruction for AI Educational
nstructional Development of Creative Convergence for Science Class
Mathmatics for Artificial Intelligence
AI and Problem Solving Class
onvergence Project for Cross Subject Matters
Advanced Artificial Intelligence
AI Education Policy Development Project
Field Study of School Application

Home Economics Education

Advanced Home Management
Advanced Clothing Materials
Advanced Food Science
Advanced Child Development
Methodology in Home Economics Education
Advanced Research and Teaching of Home Economics Materials
Advanced Course on Home Economics Logic and Essay Writing
Advanced Family Life and Welfare
Advanced General Housing
Advanced Food History
Advanced Clothing Management
Statistics
Advanced Apparel Design
Advanced Culture of Clothing
Advanced Nutrition
Advanced the Family
Advanced Home Economics Education
Advanced Meal Education
Seminar of Home Economics Education

Korean Education

Korean Language Education
Korean Literature Education
Korean Linguistics Education
Policy on thr Korean Language
Korean Grammar Education
Korean Phonology Education
Korean Semantics Education
Ancient Korean Poetry Education
Ancient Korean Fiction Education
Oral Korean Literature Education
Modern Korean Poetry Education
Modern Korean Fiction Education
Literary Criticism
The Korean Language Proficiency Evaluation
Studies on Korean Literary History
Studying Media Education
Theories on Communication Education
Studies on Teaching Materials of Korean
History of Korean Language Education

Physics Education

Quantum Physics
Condensed Matter Physics
Mathematics for Physics
Physics Laboratory
Materials in Physics Education
Physics Education Laboratory
Nuclear and Particle Physics

Researches in Physics Education
Modern Optics
Theory of Fluid
Advanced Physics Education Experiment
Theory and Practice in Teaching Physics
Psychology in Physics Learning
Physics Curriculum and Evaluation
Seminar in Physics
Statistical Thermodynamics
Studies on Physics Education for the Gifted
Education of Mechanical Concepts
Education of Electromagnetic Concepts
Studies in Physics Education

Fine Art Education

History of Korean Art
Drawing
Theory of Art Education
Practice of Crafts
Practice of Design
Practice of Sculpture
Practice of Painting
Practice of Korean Painting
Aesthetics
Image Art
Techniques of Expression
Theory of Modern Arts
Art Teaching and Learning Methods
Logics and Writing of Art
Computer Lesson Support of Art
Expression and Development Stage of Children's Art
Development and Application of Teaching Materials for Art Education
The philosophical theory of korean art
Art and Culture

Counseling Psychology

Psychology of Personality
Psychological Testing
Counseling of Special Children
Counseling Practicum and Case Studies
Group Counseling
Family Counseling
Counseling Theories and Practice
Behavior Modification
Abnormal Psychology
Career Counseling
School Psychology

Biology Education

Advanced Vertebrate Zoology
Advanced Genetics
Advanced Animal Physiology
Advanced Plant Physiology
Advanced Invertebrate Zoology
Advanced Microbiology
Advanced Human Embryology
Advanced Environmental Biology
Advanced Ecology
Advanced Plant Taxonomy
Advanced Animal Taxonomy
Advanced Molecular Biology
Advanced Cell Biology
Studies in Biology Education
Biology Logic and Essay Writing
Secondary School Biology Curriculum and Teaching Method
Action Research in Biology Education
Multimedia in Biology Education

Mathematics Education

Teaching Materials for Algebra
Teaching Materials for Analysis
Pedagogy of Mathematics
Teaching Materials for Geometry
Topics in Algebra Ⅰ
Topics in Algebra Ⅱ
Topics in Analysis Ⅰ
Topics in Analysis Ⅱ
Topics in Geometry
Topics in Topology
Topics in Mathematical Statistics
Combinatorics

Topics in Applied Mathematics
Mathematics Using Computer
Psychology of Learning Mathematics
History of Mathematics Education
Studies in Mathematics Education
Mathematics Teaching and Learning Materials

English Education

English Language Learning and Teaching Methodology
Pedagogical English Grammar
Studies in British and American Culture
Second Language Acquisition
History of the English Language
General Linguistics
English Phonology
Seminar on British and American Poetry
Seminar on British and American Fiction
Seminar in English Language Teaching
Seminar on British and American Drama
Critical Perspectives on British and American Literature
Research Methods in English Education
Teaching English Literature
Teaching English Linguistics
Multimedia and English Teaching
ELT Materials Development
Testing in TEFL

Nutrition Education

Advanced Nutrition Education and Counseling
Advanced Food Science
Advanced Food Safety
Advanced Nutrition
Advanced Nutrition in Life Cycle
Advanced Foodservice in Institution
Advanced Nutritional Assessment
Advanced Diet Therapy
Advanced Principles of Food Preparation
Advanced Nutrition Education Method
Advanced Public Health Statistics
Advanced Community Nutrition
Research on Foodservice Management
Advanced Cultural Aspects of Food
Research of Teaching Materials and Methods in Nutrition Education
Advanced Functional Food
Advanced Food Processing and Preservation
Seminar in Nutrition Education

Early Childhood Education

Theoretical Foundations of Early Childhood Education
Curriculum and Instructional Resources in Early Childhood Education
Research Methods in Early Childhood Education
Instructional Methods and Practices in Early Childhood Education
History and Philosophy of Early Childhood Education
Developmental Psychology of Early Childhood
Theories of Play in Early Childhood Education
Study of Early Childhood Education Programs
Study of Language Education in Early Childhood
Study of Social Education in Early Childhood
Study of Science and Mathematics Education in Early Childhood
Administration and Supervision in Early Childhood Institutions
Seminar in Parent Education
Field Study in Early Childhood Education
Study on Counseling and Guidance for Young Children
Instructional Media for Young Children
Study of Children's Literature in Early Childhood Education
Study of Creative Art Education in Early Childhood Education
Study of Inclusive Education for Young Children
Study of Early Childhood Teacher Education

Music Education

A Course on Music Logic and Essay Writing
Teaching Material and Pedagogy of Music
Music Education Theory

Psychology of Music Education
Music History
Seminar in Music Education
Curriculum of School Music Education
Introduction of Korean Traditional Music
Korean Music Major
Adapting Multi-MIDI in Music Classes
Advanced Music Theory
Teaching of Choir Class
Pedagogy and Music Education

Integrated Social Studies Education

Common Sociology Logic and Essay Writing
Curriculum and Instruction in Social Studies
History of Political-Social Thought
International Political Economics
International Relation and Regional Politics
Local Government and Civics Education
Methods in Social Studies Education
Modern Society and Culture
Multimedia and Education
Participatory Research in Social Studies Education
Social Problems and Welfare
Studies in Korean Unification
Teaching Method of Social Studies
Theories of Law
Theories of Political Science
Theory of Information and Society
Theory of Korean Economics
Theory of Korean Politics
Theory of Modern Democracy

Electrical Electronic and Communication Education

Materials and Instructional Method in Industrial Education
Theories of Teaching Logic and Logical Writings in Industrial Education
Management of Industrial Education
Seminar in Technical Education
Research Methods in Technical Education
Action Research in Technical Education
Advanced Design of Digital Circuit
Advanced Microprocessor
Advanced Automatic Control
Advanced Electrical Engineering
Advanced Engineering Electromagnetics
General Electrotechnics and Electronics
Advanced Electronic Engineering
Advanced Electromagnetic Applications
Advanced Electronic Circuit
Advanced Computer Network
Advanced Computer Application Education
Advanced Communication Engineering
Advanced Circuit Theory

Computer Education

Development & Implementation of the Computer Education Curriculum
Design & Development of the Multimedia Assisted Instruction
Topics in Data Structure
Research in Computer Education
Telecommunication &Distance Education
Teaching Materials in Computer Education
Advanced Computer Organization
Advanced Operating System
Theory of Compiler Construction
Topics in Programming Language
Design and Analysis Algorithm
Topics in Artificial Intelligence
Topics in Computer Networks
Topics in Software Engineering
Advanced Computer Graphics
Database Design and Modeling
Distributed Database System
Advanced Object-Oriented System

Earth Science Education

Advanced Earth Science Ⅰ
Advanced Earth Science Ⅱ
Teaching Materials in Earth Science
Advanced Geophysics

Stellar Physics
Topics in Climatology
Advanced Applied Geology
Advanced Oceanography
Advanced Stratigraphic Paleontology
Micro-Meteorology
Astronomical Observation and Analysis
Global Tectonics
Petrogenesis
Advanced Mineralogy
Natural Disasters and Resources
History of Earth Science and Earth Science Education
Multimedia and Earth Science Teaching Materials
Earth Science Education and Regional Environment Studies in Science Education

Physical Education

Measurement and Evaluation of Physical Education
History of Physical Education
Philosophy of Physical Education
Study on Teaching of Physical Education
Physical Education Theory
Physical Education Logic and Essay Writing
Physical Healthy Theory
Korean Dance
Physical Training
Sport Physiology
Physical Teaching Method
Sociology of Physical Education
Sport Psychology
Sport Biomechanics
Administration of Physical Education
Motor Learning and Control
Training Theory

Chemistry Education

Topics in Physical Chemistry
Topics in Organic Chemistry
Topics in Chemistry Education
Topics in Inorganic Chemistry
Topics in Quantum Chemistry
Topics inInstrumental Analysis
Topics in Physical Organic Chemistry
Topics in Chemical Thermodynamics
Topics inOrganic Reaction Theory
Topics in Chemical KineticsTopics in Biochemistry
Advanced Analytical Chemistry
A Course on Chemistry Logic and Essay Writing
Curriculum and Evaluation in Chemical Education
Teaching Methods and Material Development in Chemical Education
Issues in Chemical Education
Research Method in Chemical Education
Teaching and Learning Theories in Chemical Education
Research Methodology in Chemical Education
Chemistry Logic and Essay Writing
Advanced Electrochemistry

Special Education

Teaching methods and materials in Special Education
Research Methodology in Special Education
Introduction to Special Education
Education for Children with Intellectual Disabilities
Education for Children with Physical Disabilities
Education for Children with Emotional Disorders
Education for Children with Communication Disorders
Education for Children with Learning Disabilities
Inclusion of Children with Special Needs
Special Education Technology
Curriculum and Instruction in Special Education
Psychology and Education of Children with Disabilities
Special Education and Counseling
Special Education Administration
Assessment and Evaluation of Children with Disabilities
Applied Behavior Analysis
Education for Children with Visual Impairments
Education for People with Hearing Impairments
Movements of Thought in Modern Education
School Education and Society
Introduction to Early Childhood Special Education

Librarian Education

Advanced Research Methodology in Library and Information Science
Studies in Classification Theory
Studies in Reading Education
Introduction to Education Materials and Media
Studies in Library & Information Center Management
Theory of Bibliotherapy
Studies in Cataloging Theory
Advanced Library and Information Science
Studies in Indexing and Abstracting
Management of Internet Resources
Studies in Collection Management
Studies in Information Retrieval
Cultural Review of Information
Studies in Information Services
Information and Society
User Studies
Studies in Special Materials
Topics in School Library Management
Thesis

Humanities and social integration

Advanced Climatology
Advanced Geographic History
Advanced Geomorphology
Education for Culture and Historical Geography
Education for Economic Geography
Education for Population Geography
Education for Regional Study in Korea
Education for Urban Geography
Geography Education Theory
Research in Education of World Regional Geography
Seminar in Human Geography Education
Seminar in Physical Geography Education
Social Geography Seminar
Introductory Theory of History Education
History of Chinese Historiography
History of Korean Politics
History of Western Historiography
History of Western Socio-Economics
History of Korean Socio-Economics
History of Chinese Socio-Economics
Modern-Contemporary History of Korea
Modern and Contemporary History of Europe
Twentieth Century Modern History
Pre-Modern History of East Asia
Modern and Contemporary History of East Asia
Ancient and Medieval Korean History
Intellectual and Cultural History of Korea
Studies in Western Ethical Thoughts
Studies in Theories of Moral and Ethics Education
Studies in Korean Ethics Education
Seminar in Theories of Value Education
Studies in Modern Ethical Thought
Seminar in the Ethical Theory of Buddhism
Research on Welfare State
Topics in Classic Writings of Western Ethics
Studies in East Asian Ethics Education
Seminar in the Ethical Theory of Lao-tzu and Chang-tzu
Studies in Moral Psychology and Moral Development
Studies in Social Democracy

School Education Reconstruction

Teacher's Leadership and Sineonseopan
Innovating My School: Power of One
Qualitative Research Methods in Education
Case Study Research and Applications
Functions/Dysfunctions of School Organizations
Understanding School Organization and Educational Innovations
The Role of Teacher in Community
Quantitative Research Methods in Education

Graduate School Of Industry and Technology

Contact Information
Phone: +82-62-530-1607
Fax: +82-62-530-1942
URL: http://gsit.jnu.ac.kr

■ Graduate Studies in the Graduate School of Industry and Technology

The Graduate School of Industry and Technology was established in 1989. The School aims to teach students theories and applications of industrial technology so they can contribute to the development of the local community and nation as a whole. The school offers 13 master's degree programs and 1 non-degree program, the AISP (Advanced Industrial Strategy Program)

The 13 programs are offered through the Graduate School of Industry and Technology.

- Architectural Engineering
- Civil Engineering
- Mechanical Engineering
- Industrial Engineering
  - Mineral and Energy Engineering
  - Textiles Engineering and Cloth Design
  - Industrial Engineering
  - Biochemical Engineering
- Electrical-Electronics-Computer Engineering
  - Electrical Engineering
  - Electronics Engineering
  - Computer Engineering
- Material Engineering
- Chemical Engineering
- Environment and Energy Engineering
- Department of Eco-friendly Agriculture
  - Environmentally Friendly Agricultural Life
  - Eco-friendly Animal Husbandry
- Food Science & Technology
- Rural Resources & Environmental Engineering
  - Rural Engineering
  - Rural Tourism & Local Development
  - Biosystem Engineering
  - Forest Resource
  - Landscape Architecture
- Electronics & Computer Engineering
- Department of Food Technology

■ Degree Requirements

Anyone who has graduated from a four-year college and has been awarded a bachelor's degree, or who has a bachelor's degree or master's degree from a foreign university, or who is recognized by the Ministry of Education and Human Resources Development as having equivalent qualifications of course work requirements of a regular four year college program, is eligible for application for admission after passing the appropriate entrance examination.

The length of coursework shall normally be two years and six months.

A period of no longer than four years and six months shall be allowed for completion of the master's degree programs.

When a student is absent from lectures for more than one month because of illness or other unavoidable circumstances, he or she may petition for a temporary leave of absence of one year or less.

Class days must number 15 weeks or more each semester. A minimum of 24 credits are required for completion of the master's degree. The courses a student should take are divided into two types: required and elective courses.

Students are expected to attend more than two-thirds of their classes and receive a grade of C or higher to be considered acceptable. However, a student must earn a CGPA of 3.0 or better to be awarded a master's degree.

A master's degree shall be granted to candidates who have fulfilled all the requirements.

Applicants for research courses in the Graduate School of Industry and Technology should have graduated from an undergraduate program qualified by the Ministry of Education and Human Resources Development. International students or government officials who have equivalent qualifications can be accepted as special supernumerary students through an additional examination.

■ What Do You Study?

Architectural Engineering

Advanced Course In Steel Structures
Theory Of Architectural Planning
Project Control On Building Construction
Theory Of Architecture
Theory Of Architectural Design 1
Theory Of Architectural Design 2
Advanced Theory Of Urban Planning
Principles Of Noise Control
Advanced Theory Of Contemporary Architecture
Advanced Theory of History of Oriental Architecture
Advanced Theory Of History of Korean Architecture
Principles of Building Facilities
Theory of Architectural Space
Advanced Theory of Conternporary Architecture
Theory of Urban Design
Computet Aided Advanced Estimation
Advanced Course in Steel Structure Design
Principles and Applications of Architectural Acou
Advanced Theory of History of Western Architecture
Theory of Environmental Psychology
Earthquake resistance design
Structural building system
Theory of mordern architecture
Construction Management
Advanced Decision Metholodogy
Safety Management in Construction Field
Eco-housing design
Architectural Programming
Reinforced concrete
Structural Analysis
Advanced Construction Materials
Methodologies for Integrative Design
Theory in Digital Architecture
Building Information Modeling
Socio-Spatial Theory of Architecture
Construction Information Technology
Zero Energy Building Design and Project Management
Building Renewable Energy Systems
Building Energy Technologies: State of the Art
Practical Thesis Seminar

Civil Engineering

Advanced Structural Engineering

Advanced Reinforced Concrete Structure
Design of Structural
Advanced Geo-Technical Engineering
Advanced Foundation Engineering
Advanced Urban Planning
Advanced Surveying Engineering
Applied Hydrology
Water Resource Engineering
Advanced Water and Waste Water Treatment
And Disposal
Introduction of Civil Engineering
Environmental Impact Assessment
Advanced Traffic Engineering
Advanced Highway Construction Engineering
Advanced Highway Engineering

Mechanical Engineering

Advanced Control Engineering
Advanced Course of Applied Mathematics
Advanced Design Engineering
Advanced Dynamics
Advanced Energy Conversion
Advanced Fluid Dynamics
Advanced Internal Combustion Engine
Advanced Manufaturing Engineering
Advanced Material Science
Advanced Mechanical Vibration
Advanced Solid Mechanics
Advanced Thermodynamics
Alternative Energy
Automation In Manufacturing
Combustion & Systems
Composite Materials
Conduction Heat Transfer
Convective Heat Transfer
Design of Thermal System
F.E.M
Fluid Machinery
Fluid Power And Fluidics
Fluid System Design
Heat Exchanger Design
Measurement In Heat Transfer And Fluid Mechanics
Mechatronics
Metal Forming
Optimal Control
Practical Thesis Seminar
Robotics
Seminar
Structural Dynamics
Welding Engineering

Industrial Engineering

▮ Mineral and Energy Engineering

Advanced Haulage Engineering
Advanced Resources and Safety
Special Issues on Resource Engineering
Research for Material Processing
Metallic Mineral Processing
Non-Metallic Mineral Processing
Applied Mineralogy
Applied Geology
Gem Mineralogy
Advanced Industrial Waste Treatment
Advanced Industrial Waste Water Treatment
Air Pollution Control
Advanced Rock Mechanics
Advanced Blasting Engineering
Advanced Stress Analysis
Advanced Electrical and EM Prospecting
Advanced Seismic Prospecting
Advanced Ground Water Engineering
Advanced Industrial Sensors
Characterization of Industrial Materials

▮ Textiles Engineering and Cloth Design

Advanced Course of Fiber Material
Advanced Fiber Physics
Advanced Theory of Dyeing
Advanced Instrumental Analysis
Advanced Fiber Assemblies
Advanced Weaving Process
Physical Properties of Fiber
Advanced Textile Finishing
Advanced Textile Process System Analysis and

Control
Fashion CAD
Fashion Design
Fashion Research
Clothing Ergonomics
Applications of Advanced Textile Materials
Textile Materials and Product Evaluation
Textile CAD
Dyeing for Fashion Design
Information Analysis and Marketing Research
Analysis of Consumer Behavior
Advanced Fashion Marketing
Product Planning and Development

▮ Industrial Engineering

Advanced Human Engineering
Advanced Inventory Management
Advanced Operations Research
Advanced Project Management
Advanced Service Engineering
Advanced Statistics
Advanced Supply Chain Management
Advanced Theory of Constraints
Advanced Topics on Digital Manufacturing Systems
Advanced Topics on Human Interface Engineering
Advanced Topics on Knowledge Engineering
Case Studies of Industrial Engineering
Case Studies of Systems Engineering
Computer Programming
Decision Theory
Engineering of Product Development
Evolutionary Algorithms
Experimental Designs
Management of Technology
Marketing and Management Strategy
Practical Thesis Seminar
Probability Theory and Its Applications
Production Management
Quality Control
Reliability & Maintenance Policy
Simulation and S/W Practice
Special Topics in Industrial Engineering
System Safety Engineering
Theory and Practice of Creative Problem Solving

▮ Biochemical Engineering

Advanced Bioindustry
Advanced Industrial Microbiology
Advanced Aquaculture
Advanced Fisheries Food Processing
Advanced Fisheries Business Management
Advanced Biomedical Material
Advanced Animal and Plant Tissue Cultures
Advanced Agriculture Biotechnology
Advanced Soil Fertility
Advanced Crop Production
Advanced Genetic Engineering
Advanced Fermentation Engineering
Advanced Separation and Purification for Biochemical Material
Advanced Marine Ecology
Advanced Marine Biotechnology
Advanced Fisheries Dynamics
Advanced Clean Technology
Advanced Bioprocess Engineering
Advanced Food Engineering
Advanced Instrumental Analysis
Seminar
Practical Thesis Seminar

Electrical·Electronics·Computer Engineering

▮ Electrical Engineering

High Voltage Power Apparatus
Power System Protection
Power IT Engineering
High Voltage Insulation Theory
Photo-Electric Energy Conversion
Alternative Energy Conversion Theory
Advanced Digital Control
Advanced Electrical Applications
Electric Materials Engineering
Advanced Power Electronics
Electromagnetic Field Theory
Electric Network Theory

Power Transformation Theory
Advanced Power System Analysis
Power System Operation Theory
Lighting System Design and Applications
EMC/EMI
Switching Power Supply Design
Special Electric Machinery
Automatic Measurement System
Automation of Industrial Process
Power System Dynamic Modeling
Topics in Renewable Energy Systems
Energy Storage System Engineering
Power System Control
Introduction to Artificial Intelligence
Electric Machine Control System
Seminar
Practical Thesis Seminar

▮ Electronics Engineering

Computer Architecture
Advanced semiconductor design methodology
High Frequency Circuit Design
Opto-Electronics
Digital System
Advanced Digital Control
Digital Image Processing
Robotics
Multimedia Systems
Semiconductor Device Process Engineering
Semiconductor Device Physics and Technology
Nonlinear Control
Practical Thesis Seminar
Study for Industrial Thesis
Signal Processing
Antena Engineering
Mobile Communication Engineering
Electronic Device Engineering
Electromagnetic Field Theory
Information Theory
Control Application Engineering
Intelligent Control Engineering
Intelligent Control Theory
Integrated Circuits Engineering
Next generation memory semiconductor design
Next Generation Wireless Communication Engineering
Next Generation Mobile Communication Engineering
Next Generation Information Communication Engineering
Next Generation Communication Engineering
Telecommunications network
Communication Theory
Stochastic Process

▮ Computer Engineering

Data Base
Data Communication
Digital System Design
Digital communications and channel coding
Deep Learning and IT Convergence
Multimedia And Application
Biomedical Artificial Intelligence
Practical Thesis Seminar
Study for Industrial Thesis
System Software
Signals And Systems Theory
Operating System
Mobile Communication Engineering
Artificial Intelligence
Embedded Hardware
Data Structure
Computer Architecture Principles
Computer Network
Computer Security
Computer Image Processing
Communication System Engineering
Communication Theory
Project Design and Seminar
Theory of Probability and Statistics
VLSI Design
Special Topics in Semiconductor Testing

Materials Engineering

X-Ray Diffraction
Advanced Metallurgical Thermodynamics
Special Topics In Metals And Alloys
Sintering And Crystal Growth
Advanced Foundary Engineering
Advanced Ferrous Process Metallurgy
Materials For Special Uses
Advanced Course Of Surface Processing
Theory Of Phase Transformation
Advanced Welding Engineering
Dislocation Theory
Advanced Inorganic Chemistry
Advanced Solid Thermodynamics
Advanced Crystallography
Corrosion and Protection of Metal
Metallic Biomaterials
Nano-materials and Processing
Bioengineering
Seminar
Advanced Instrumental Analysis
Practical Thesis Seminar

Chemical Engineering

Advanced Polymer Material
Advanced Polymer Chemistry
Fine Chemical Process
Adsorption Phenomena
Organic Synthesis Theory
Advanced Polymer Processing
Advanced Functional Polymer
Advanced Process Control
Advanced Chemical Reaction Engineering
Advanced Chemical Engineering Thermodynamics
Heat Transfer for Chemical Engineering
Fluid Dynamics for Chemical Engineering
Mass Transfer
Advanced Separation Process
Chemical Engineering Design
Catalyst Engineering
Energy Engineering
Technical Informations and Patent Strategies
Advanced Instrumental Analysis
Seminar
Practical Thesis Seminar

Environment and Energy Engineering

Advanced Air Pollution Control
Advanced Air quality management
Advanced Atmospheric Chemistry of Air Pollution
Advanced Environmental Hygiene
Advanced Environmental Impact Assessment
Advanced Environmental Microbiology
Advanced Renewable Energy
Advanced Waste Water Engineering
Advanced Water and Wastewater Engineering
Advanced Water Quality Management
Environmental Hydrology
Environmental Organic Chemistry
Environmental Policies and Management
Hydrogen Energy
Intellectual Property Protection in Environmental Engineering
Microbial Fuel Cell Technology
Modern Renewable Energy Technology
Practical Thesis Seminar
Principles and Design of Hazardous Gas Treatment
Soil Pollution treatment and Management
Solid Waste Management And Treatment

Department of Eco-friendly Agriculture

▮ Environmentally Friendly Agricultural Life

Advanced Plant Genetics & Breeding
Advanced Plant Physiology & Ecology
Advanced Food Crops
Advanced Special Crops
Advanced Vegetable Crops
Advanced Floriculture
Advanced Insect Pest
Advanced Plant Pest
Advanced Pomology
Special Studies
Research for the Master's Degree
Advanced Agriculture
Advanced Fertilizers

Advanced Biochemistry
Advanced Plant Nutrition
Advanced Applied Microbiology
Advanced Chemistry of Natural Products
Advanced Soil Science
Topics
Advanced Environmental Toxicology
Agricultural Marketing
Farm Management
Advanced Agricultural Finance
Agricultural Policy
Advanced Rural Survey

▮ Eco-friendly Animal Husbandry

Advanced Animal Reproduction
Advanced Animal Food Processing Technology
Advanced Animal Breeding
Sustainable Animal microbiology
Advanced Animal Metabolomics
Sustainable Forage Production & Utilization
Animal Bioactive Chemicals
Advanced Animal Production & Welfare
Advanced Beef Production
Advanced Animal Population Genetics
Advanced Animal Biotechnology
Advanced Germ Cells
Advanced Animal experiment design
Advanced Animal Hygiene
Industrial Paper Seminar

Food Science & Technology

Special topics in Fermentation Sitology
Practical Thesis Seminar
Food Processing and Preservation
Food Functional Chemistry
Metabolic engineering in Food
Advanced Food Microbiology
Food Virology
Advanced Food Biotechnology
Food and Biostatistics
Advanced Food Biochemistry
Food Ingredient Technology
Advanced Food Ingredient Utilization
Advanced Food System Engineering
New product development
Advanced Food Hygiene
Advanced Food Packaging
Food Flavor Chemistry
Advanced Food Chemistry
Nutritional Physiology
Advanecd Nutrition Chemistry
Advanced Food Lipids
Recent Technology for Food Processing
Carbohydrate Foods
Special Topics in Nutritions
Advanced enzyme biotechnology

Rural Resources & Environmental Engineering

▮ Rural Engineering

Landscape Planning & Practices
Agricultural Marketing
Rural Systems Engineering
Rural Watershed Management
Rural Surveying Methodology
Rural Development Theory
Non-point Source Pollution Management
Practical Thesis Seminar
Advanced Course in Structural Analysis
Rural Ecosystem Remediation
Advance Village Planning
Advanced Soil Science
Topics
Environmentally Sustainable Foundation Design

▮ Rural Tourism & Local Development

Landscape Planning & Practices
Green Care Policy & Planning
Interpretation for Agriculture & Rural Laws
Agricultural Marketing
Rural Development Planning
Rural Economy Development
Rural Tourism/ Development Seminar
Rural Tourism Planning and Management
Rural Villages Improvement
Rural Development Theory

Practical Thesis Seminar
Forestry Tourism Planning
Place Marketing Theory
Rural Community Development
Soil Environment Remediation
Topics

▮ Biosystem Engineering

Advanced Agricultural Processing Engineering
Agricultural Mechatronics
Agricultural Fluid Power System
Analysis of Agricultural Information
Advanced Farm Machinery 1
Practical Thesis Seminar
Advanced Data Communication and Networking for Biosystems
Automation of Agricultural Systems
Advanced Biosystems Engineering
Acquisition and Analysis of Bio-information
Advanced Food Processing Machinery
Advanced applied Biological Engineering
Advanced precision Agricultural Engineering
Topics

▮ Forest Resource

Advanced Dendrology
Advanced Erosion Control Engineering
Advanced Forest Civil Engineering
Advanced Forest Ecology
Advanced Mycology
Advanced Silviculture
Advanced Wood Mechanics
Forest Environmental Law
Forest Polic
Forest Proctection
Liggnocellulosic biorefinery
Muchanics of Materials
Practical Thesis Seminar
Topics
Wood Anatomy & LAD
Wood Chemistry
Wood Construction Mechanics
Wood Engineering
Wood Machining and Drying
Wood Physics

▮ Landscape Architecture

Advanced Environmental Openspace Design/Planning
Advanced Theories On Landscape Maintenance
Advanced Rural Landscape Planning
Advanced Site Planning
Advanced Landscape Structural Mechanics
Advanced Landscape Construction Materials
Advanced Theory of Regional Community
Advanced Landscape Architecture Planning
Integrated Approach for Rural Landscape Design
Advanced Landscape Gardening
Urban Place and Landscape Architecture
Practical Thesis Seminar

Electronics & Computer Engineering

Digital System Engineering
Advanced Opto-Electronics
Electronic Device Engineering
Modern Robotics
Intelligent Control Engineering
Signals and Systems Theory
Digital Signal Processing
Computer Network
Data Communication Engineering
Introduction to Communication System Engineering
Digital Communication Engineering
Next Generation Information Communication Engineering
Multimedia Signal Processing
Advanced Multimedia Systems
Multimedia Applications
Advanced Computer Security
Image and Communication System
Digital Image Processing
Computer Architecture
Advanced Embedded System Design
Database Processing
Advanced Data Structure
Software Engineering
Operating System Principles

Advanced Artificial Intelligence
Introduction Computer Vision
Introduction to Pattern Recognition
Neural Network and Fuzzy Systems
Web Engineering
Ubiquitous Computing
Probability and Statistical Theory
Special Topics in Computer and Electronics Engineering
Project Management
Research Seminar for the Master's Degree and
Technical Writing
Study for Industrial Thesis
Small Business Technology Management
Advanced Electronic Circuits
Introduction to Optical Communication System
Advanced SoC Design

Department of Food Technology

Introduction to Food Technology
Convergent Technologies for Food Technology
Law and Regulations in Food Technology
Automation of Food Processing
New Food Product Development
Business in Food Technology
Field studies of Food Technology
Capstone Design

Graduate School of Industry-University Cooperation

Contact Information
Phone: +82-61-659-6622
Fax: +82-61-659-7209
E-mail:jspts@jnu.ac.kr

■ Graduate Studies in the Graduate School of Industry-University Cooperation

The Graduate School of Industry-University Cooperation (GIUC) was established in November 1993 and initially consisted of three master's degree programs. The aim of the School is to familiarize students with industrial technology theories and applications and help them become experts in high-tech industries.

There are 20 master's degree programs offered through the GIUC, including programs in Corporate Management, Foreign Trade Management, Logistics and Transportation, Cultural Industry, Visual Information Design, Electronic Communication Engineering, Ocean Civil Engineering, Environmental System Engineering, Mechanical Design Engineering, Refrigeration Engineering, Chemical System Engineering, Electrical Engineering, Computer Engineering, Biotechnology Engineering, Automotive System Engineering, Mobile Soft, Multimedia Contents, Architectural Design, and Global Business Administration.

■ Degree Requirements

Anyone who has graduated from a four-year college and has been awarded a bachelor's degree, or who has a bachelor's degree or master's degree from a foreign university is eligible for application for admission after passing the appropriate entrance exam.

The length of coursework shall normally be two and a half years. Class days must number 15 weeks or more each semester. A minimum of 24 credits are required for completion of the master's degree. Students must also pass two types of additional exams for completion of the master's degree. One is the foreign language exam (English, for the most part), and the comprehensive exam consisting of at least three major courses.

The Department Head appoints a member of his faculty as an academic advisor to individual students within the first semester, to guide students in their selection of coursework and thesis subjects.

■ What Do You Study?

Department of Business Administration

▮ Major in Management

Research Methods in Administration

Topics in International Marketing

Topics in International Trade Theory
Topics in Letter of Credit
Topics in International Financial Management
Topics in Foreign Direct Investment
Topics in Overseas Regional Economics
Topics in Economic Integration
Topics in International Financial Derivatives
Case Study on International Commerce
Topics in Electronic Commerce
International Trade Contract and Marine Insurance
Case Study on Distribution and Logistics
Topics in International Business Management
Topics in Theory of Foreign Exchange
Topics in International Business Strategy
Topics in International Finance
Topics in Multinational Enterprise
Topics in Marketing Management
Topics in Econometrics
Topics in International Trade Policy
Topics in International Resource and Environmental Economics
Topics in Corporate Foreign Exchange Risk Management
Topics in Commercial Practice of International Trade
Topics in EDI
Case Study on International Logistics
International Negotiation and Foreign Commercial Custom

▮ Major in Electronic Commerce

Digital Business Case Analysis
Digital Business Start-up
Elecronic Commerce System
Elecronic Payment System
Information Technology and Business Innovtion
Introduction to e-Business
Research Methodology1
Research Methodology2
Software Development and Management
Special Toics in Digital Business
Special Topics in Decision theory
Special Topics in e-Marketing
Special Topics in Information Security
Special Topics in Information System
Special Topics in Next Generation Intermet
Special Topics in System Managment
Special Topics in Ubquitous
Strategy for e-Business
Thesis Research

▮ Major in Transportation and Logistics

Master's Thesis Research
Advanced Research Methodology
Advanced Transportation Planning
Advanced Traffic Engineering
Urban Public Transportation
Advanced Study on National and Regional Planning
Advanced Study on Transportation Polices
Transportation Network Theory
Urban Modeling Seminar
e-Supply Chain Management Seminar
Global Logistics Seminar
Service Management Seminar
Performance Management Seminar
Network Theory
Port Management Seminar
Material Handling System
Computer Simulation
Advanced Analysis of Traffic Flow
Seminar on Traffic Operations
Advanced Database Management for Transportation and Logistics
Information Technology Application
Advanced Logistics Information System
Information Technology and Management Innovation
Economic Evaluation for Transport Infrastructure

Investment
Urban Logistics Planning Theory
Freight Movement Theory
Transportation Economics Seminar
Transportation Planning Seminar
Advanced Green Logistics
Neural Networks
Advanced Intelligent Transport System
Logistics Polices Seminar
Advanced Industrial Location Theory
Advanced Capacity Analysis
Advanced Traffic Control

▮ Major in Cultural Industries

Culture and Industry
Introduction to Korean Culture
Study of Comparative Culture
Theories of Mass Culture
Aesthetics of Art
Cultural Criticism
Local Culture
Research of Korean Culture Ⅰ
Research of Korean Culture Ⅱ
Comprehension of Assets
Research of Cultural Industry Management
Research of Cultural Industry Policy
Cultural Industries Methodology
Marketing Research in Cultural Industry
Cultures and Communications
E-Business in Culture
Survey of Culture
Culture and Tourism
Study on Tourism Policy
Cultural Information and Mass Media
Analysis of Cultural Contents
Planning and Direction of Culture
Cultures and Films

▮ Major in Art and Design

Theory of Multimedia
Design Art Workshop 1
Design Art Workshop 3
Western Art Compared with Oriental Art
Major Photography 1
Expression and Media 1
Major Photography 3
Studies in Work 1
Brand Clinic
Theory of Design Representation
Design Psychology
Advertising Design
Advanced Theory of Marketing
Illustration Essay
Product in Culture
Theory of Visual Information Design
Motion Graphics Workshop
Design Art Workshop 2
Design Art Workshop 4
Theory of Modern Visual Art
Major Photography 2
Expression and Media
Major Photography 4
Studies in Work 2
Design Comment
Theory of Design Future
Package Design
Theory of Design Development
Sign and Typography
Visual Environmental Design
Psychology of Visual Perception
Presentation Research

▮ Major in Electronic Communication Engineering

Advanced Data Communication
Advanced Electro-Magnetics

Graph Theory
Advanced Optical Communication
Digital Signal Processing
Data Communication and New Media
Measurements Engineering
Advanced Satellite Communication
Algorithms
EMI and EMC
Data Communication Network
Digital Logic Design
Advanced Digital Engineering
Acoustics Engineering
Advanced Microwave
Advanced Image Communication
Advanced Automatic Control
Advanced Telecommunication Regulations
Advanced Antennas
Mobile Communication Engineering

▮ Major in Ocean Civil Engineering

Research for Master's Degree
Programing for Applied Civil Engineering
Theory of Elasticity
Advanced Soil Mechanics
Advanced Planning Theory
Advanced Hydrology
Advanced Transportation Planning
Plastic Analysis of Structures
Finite Element Method
Earthquake Engineering
Advanced Hydraulics
Advanced Coastal Hydraulics
Earth Structures
Coastal Hydraulic Models
Advanced Rock Mechanics
Advanced Foundation Engineering
Advanced Reinforced Concrete
Structural Dynamics
Advanced Urban Planning
Analysis of Special Structures
Advanced Pre-stressed Concrete
Water Resource System
Advanced Harbor Engineering
Advanced Ocean Soil Mechanics
Pollution Diffusion

▮ Major in Computer Engineering

Advanced Operating System
Advanced Artificial Intelligence
Advanced Computer Graphics
Computer Architecture
Soft Computing
Advanced Database System
Advanced Data Communication
Digital Integrated Circuits
Advanced Image Processing
Interconnection Network System
MOS Integrated Circuit
Seminar Ⅰ
Seminar Ⅱ
Digital Signal Processing
Advanced Software Engineering
Super Computer System
Computer Vision
Advanced Multimedia
VLSI Test
VLSI System Design
Artificial Intelligence Application
Advanced Pattern Recognition
Advanced Computer Networks
Advanced Distributed Procession
Advanced Algorithm

▮ Major in Environmental System Engineering

Advanced Air Pollution Engineering
Advanced Air Pollution Management

Modeling of Atmospheric Diffusion
Advanced Industrial Wastewater Treatment
Research for Master's Degree
Noise Control Engineering
Advanced Water Pollution Engineering
Advanced Water Treatment Engineering
Applied Hydrology
Advanced Remediation Engineering
Advanced Waste Treatment Engineering
Advanced Waste Control & Management
Advanced Wastewater Treatment
Advanced Environmental Analysis
Advanced Environmental System Engineering

▮ Major in Mechanical design Engineering

Research for Thesis
Random Data
Advanced Manufacturing Processes
Theory of Elasticity
Advanced Vibration Theory
Advanced Measurements Engineering
Advanced Fluid Mechanics
Advanced Thermodynamics
Mechanics of Composite Materials
Vibration of Plate and Shell
Noise and Vibration Engineering
Advanced Automatic Control
Advanced Combustion Engineering
Finite Element Method
Nonlinear Vibration
Theory of Composite Plates
Turbulence
Gas Dynamics
Experimental Methods in Thermal Engineering
Computational Fluid Dynamics
Multi-Phase Flow
Materials for Machines
Fracture Mechanics
Advanced Machine Design
Continuum Mechanics
Advanced Fluid Machinery
Internal Combustion Engines
Advanced Welding Process
Mechanical Behavior of Materials
Advanced Dynamics
Numeral Stresses Analysis
Experiment for Fluid Engineering
Advanced Heat Transfer
Advanced Thermal Engineering
Numerical Analysis
Structural Vibration
Optimal Design
Application of Image
Energy and Environment
Transport Phenomena

▮ Major in Refrigeration and Air-Conditioning Engineering

Advanced Refrigeration Engineering Ⅰ
Advanced Air Conditioning Engineering Ⅰ
Advanced Food Refrigeration Ⅰ
Advanced Engineering Mathematic
Advanced Heat Transfer
Advanced Fluid Dynamics
Advanced Thermal Engineering
Advanced Refrigeration Mechanical Design Ⅰ
Advanced CAD/CAM
Advanced Environmental Engineering Ⅰ
Research for Master's Degree
Advanced Material Engineering
Advanced Refrigeration Engineering Ⅱ
Advanced Air Conditioning Engineering Ⅱ
Advanced Food Refrigeration Ⅱ
Advanced Refrigeration Mechanical Design Ⅱ
Advanced Cold Chain
Advanced Energy Utilizing Engineering
Advanced Sanitary Engineering
Advanced Control Engineering
Advanced Ultra Cryogenics-Engineering

▮ Major of Chemical System Engineering

Advanced Engineering Mathematics
Advanced Organic Chemistry
Advanced Chemical Reaction Engineering
Polymer Structure
Advanced Process Control
Advanced Engineering Physical Chemistry
Advanced Chemical Engineering Thermodynamics
Reaction Kinetics
Advanced Numerical Analysis
Advanced Fine Chemistry
New Material Engineering
Advanced Catalyst Engineering
Applied Polymer Engineering
Advanced Materials Science
Advanced Transport Phenomena
Fluid Phase Equilibria
Nano Chemical Technology
Polymer Rheology
Advanced Inorganic Industrial Chemistry
Interfacial Chemistry
Reactor Analysis Design
Research for Master's Thesis
Advanced Chemical Engineering Safety
Advanced Environmental Chemical Engineering
Advanced Nano and Bioengineering
Advanced Bioseparation Engineering
Advanced Biopolymer
Advanced Tissue Engineering

▮ Major in Biotechnology

Advanced Botany
Advanced Genetics
Protein Chemistry
Bio-resource Engineering
Topics in Ecology
Topics in Breeding
Topics in Functional Food
Topics in Microbial Engineering
Topics in Fermentation Technology
Topics in Bioreactor Engineering
Advanced Microbiology
Advanced Cell Technology
Advanced Zoology
Advanced Food Biotechnology
Advanced Molecular Biology
Advanced Cell Culture
Bioprocess Engineering
Advanced Bioactive Material Fermentation Technology
Special Topics in Marine Ecology
Special Topics in Breeding
Special Topics in Food Biotechnology
Special Topics in Genetic Engineering
Special Topics in Enzyme Technology
Advanced Culture Engineering
Research for Master’s or Doctoral Degree

▮ Major in Electrical and Semiconductor Engineering

Advanced Electromagnetics
Network Analysis and Synthesis
Power Electronics Systems
Advanced Electrical Machinery
Economic Engineering of Power System
Fuzzy Theory
VLSI Process Technology
Intelligent Control Technology
Adaptive Control Technology
Advanced Microprocessor
Advanced Digital Image Processing
Advanced Pattern Recognition
Semiconductor Process
VLSI Circuit Design
Advanced Plasma Engineering
Dielectric Engineering
Power System Simulation
Power System Operation
Advanced Linear Control Theory
Advanced Non-Linear Control Theory

Fuzzy-Neuro Control Theory
Plant Diagnosis Theory
Neuro Computing
Circuit Design and Simulation
Advanced Electronics
Advanced Power Electronics
Neural Network Theory
Advanced Power System Engineering
Reliability Engineering of Power System
Advanced Control Theory
Advanced Semiconductor Engineering
Advanced Digital Control Engineering
Advanced Robust Control
Advanced Modern Control
Robot and Machine Vision
Thin Film Engineering
Semiconductor Physics
Sensor Engineering
Stability Engineering of Power System
Advanced Chaos Engineering
Emotion Engineering
Biometrics System

▮ Major in Automotive Engineering

Research Topics for Master's Degree
Advanced Dynamics
Advanced Vibration Theory
Advanced Solid Mechanics
Experiment for Stress Analysis
Advanced Combustion Engine
Advanced Fluid Mechanics
Applied Numerical Method of Engineering
Advanced Automatic Control
Advanced Working Machine
Tribology
Advanced Numerical Dynamics
Advanced Vehicle Dynamics
Finite Element Analysis
Advanced Figure Mechanical Behavior
Strength Design of Automotive Component
Advanced Thermodynamics
Advanced Heat Transfer
Advanced Mechatronics
Mechanical Instrumentation Theory and Application
Advanced Manufacturing
Special Machining

▮ Major in Multimedia Contents

Web-Programming
Advertisement and Market Research Seminar
Special Topics on Multimedia Database
Distributed Multimedia
Software Development Management
Special Issues on Information Systems
Special Issues on Graphic and Moving Image Processing
Management Science and Operations Research
Multimedia Authoring Basics
Logistics Information Systems
Artificial Intelligence
Special Issues on Electronic Commerce
Artificial Intelligence Application
New Multimedia Technology Seminar
Web-based Decision Making Seminar
Venture Business Start-up Seminar
Computer Vision
Special Topics on Software Quality
Multimedia Advertisement
Multimedia Game Research
Multimedia Authoring Application

▮ Major in Architectural Design

Computer-aided Architectural Design
Theory of Architectural Planning
Methodology of Architectural Planning
Theory of Architectural Space

Theory of Architectural Project
Theory of Architectural Beauty
Aesthetics of Architecture
Theory of Architectural Design 1
Theory of Architectural Design 2
Theory of Architectural Design 3
Theory of Architectural Design 4
Methodology of Architectural Design
Psychology of Architecture
Architectural Environment
Theory of Design's Valuation
Theory of Education Facility's Design
Research for the Master's Degree
Theory of Complex's Design
Theory of City Planning
Theory of Urban Design
Methodology of Urban Design 1
Methodology of Urban Design 2
Theory of Welfare Facility's Design
Theory of Waterfront
Theory of Medical Facility's Design
Japan and East History of Architecture
Theory of Japan and East of Architecture
Theory of Garden's Design
Theory of Housing
Theory of Korea's Architecture
Theory of Modern Architecture

▮ Major in Global Master of Business Administration

Business administration
Business Korean Language
Marketing Strategy
Business Korean Language 2
e-business Strategy
Global Management
Big data & business strategy

■ Professors

▮ Major in Management

- Cheol Lee, Ph.D.
  [Professor, International Economy, clee1@jnu.ac.kr]
- Bok-jae Park, Ph.D.
  [Professor, International Commerce, bjpark73@jnu.ac.kr]
- Gil-sung Kim, Ph.D.
  [Professor, International Management, kikis@jnu.ac.kr]
- Young-moon Kang, Ph.D.
  [Professor, International Commerce, wto3@jnu.ac.kr]

▮ Major in Electronic Commerce

- Min-Suk Yoon, Ph.D.
  [Professor, MS and IS, msyoon@jnu.ac.kr]
- Yong-Min Kim, Ph.D.
  [Professor, Information Security and Electronic Commerce Systems, ymkim@jnu.ac.kr]
- Seung-Bong Park, Ph.D.
  [Professor, e-Business Models and e-Business Strategy, parks@jnu.ac.kr]
- In-Seop Na, Ph.D.
  [Professor, Artificial Intelligence/Big Data Processing, ypencil@jnu.ac.kr]

▮ Major in Transportation and Logistics

- Byung-In Park, Ph.D.
  [Professor, Corporate Distribution, bipark@jnu.ac.kr]
- Sang-Gu Kim, Ph.D.

[Professor, Transportation Operation, kim-sg@jnu.ac.kr]
- Jong-Wook Bae, Ph.D. [Professor, Distribution System, jwbae@jnu.ac.kr]
- Chang-Hyun Kim, Ph.D. [Associate Professor, Distribution Major, chkim@jnu.ac.kr]
- Chang-Ho Choi, Ph.D. [Associate Professor, Freight Transportation, jc1214@jnu.ac.kr]
- Seung-Sik Chin, Ph.D. [Associate Professor, Environmental Distribution, shin2han@jnu.ac.kr]

Major in Cultural Industries

- Jun-ok Kim, Ph.D. [Professor, kjok@jnu.ac.kr]

Major in Art and Design

- Eel-kwon Kim, Ph.D. [Professor, Visual Art and Digital Media Design, eelkwon@jnu.ac.kr]
- Young-sang Seo, .Ph.D. [Professor, Photograph Art, ysang@jnu.ac.kr]
- Jae-sung Yun, .Ph.D. [Professor, Visual Design, asvi84@jnu.ac.kr]
- Seok Choi, .Ph.D. [Professor, Visual Design, choiss@jnu.ac.kr]

Major in Electronic Communication Engineering

- Ki-Ryang Cho, Ph.D. [Professor, Optimization, krcho@jnu.ac.kr]
- Seung-yeop Rhee, Ph.D. [Professor, Microwave Engineering, ysrsy@jnu.ac.kr]
- Dae-Ik Kim, Ph.D. [Professor, Integrated Circuit Design, daeik@jnu.ac.kr]
- Han-Seung Jang, Ph.D. [Associate Professor, IoT & Machine-to-Machine Communications, Smart Grid, hsjang@jnu.ac.kr]

Major in Ocean Civil Engineering

- Jae-min Kim, Ph.D. [Professor, Dynamic Structural Engineering, jm4kim@jnu.ac.kr]
- Dae-hyon Kim, Ph.D. [Professor, Highway and Traffic Engineering, daehyon@jnu.ac.kr]
- Jung-won Huh, Ph.D. [Professor, Structural Reliability Engineering, jwonhuh@jnu.ac.kr]
- Young-sang Kim, Ph.D. [Professor, Geotechnical Engineering, geoyskim@jnu.ac.kr]
- Dong-yeob Han, Ph.D. [Associate Professor, Geometrics Information Engineering, hozilla@jnu.ac.kr]
- Jong-in Lee, Ph.D. [Professor, Coastal and Harbor Engineering, jilee@jnu.ac.kr]

Major in Computer Engineering

• Chang-Soo Jang, Ph.D.
[Professor, High Performance Computer, csjang@jnu.ac.kr]
• JaeHung Yoo, Ph.D.
[Professor, Graphics. jhy@jnu.ac.kr]
• Kang-Chul Kim
[Professor, VLSI Design, kkc@jnu.ac.kr]
• Chang-Gyoon Lim
[Professor, Artificial Intelligence, clim@jnu.ac.kr]
• Gwang-Jun Kim
[Associate Professor, Computer Communication, kgj@jnu.ac.kr]

▮ Major in Environmental System Engineering

• Byeong-Cheon Paik, Ph.D.
[Professor, Water System and Microbiology, bpaik@jnu.ac.kr]
• Seong-Gyu Seo, Ph.D.
[Professor, Air Pollution Engineering, sseo@jnu.ac.kr]
• Eun Sik Kim, Ph.D.
[Professor, Professor, Environmental Materials and Membrane Water Treatment, eskim@jnu.ac.kr]
• Min Jin Hwang, Ph.D.
[Associate Professor, Industrial Environmental engineering, vip7080@jnu.ac.kr]
• Seong Yun Kim, Ph.D.
[Assistant Professor, Water Quality engineering, seongyun.kim@jnu.ac.kr]

▮ Major in Mechanical design Engineering

• Sang-Kyoo Park, Ph.D.
[Professor, Fluid Engineering and Turbulence, psk@jnu.ac.kr]
• Young-Wann Kim, Ph.D.
[Professor, Mechanical Design and Mechanics of Composite Materials, wannkim@jnu.ac.kr]
• Ki-Seong Kim, Ph.D.
[Professor, Heat and Particle Imaging Velocimeter, sngkim@jnu.ac.kr]
• Seung-Uk Ko, Ph.D.
[Professor, Dynamics Control and Biomedical, kos2@jnu.ac.kr]
• Sang-Hun Kim, Ph.D.
[Assistant Professor, Applied solid dynamics, shkim83@jnu.ac.kr]

▮ Major in Refrigeration and Air-Conditioning Engineering

• Min-Young Kim, Ph.D.
[Professor, Food Refrigeration Engineering, kmy@jnu.ac.kr]
• Ki-Won Park, Ph.D.
[Professor, Air Conditioning Engineering, pkw@jnu.ac.kr]
• Young-Woo Shin, Ph.D.
[Professor, Mechanical Engineering, (Material Forming), shin5381@jnu.ac.kr]

▮ Major of Chemical System Engineering

• Youn-Sop Kim, Ph.D.
[Professor, Polymer Chemistry, yskim1@jnu.ac.kr]
• Ho-Joon Seo, Ph.D.
[Professor, Catalytic Reaction Engineering, hjseo@jnu.ac.kr]
• Oh-Yun Kwon, Ph.D.
[Professor, Physical Chemistry, oykwon@jnu.ac.kr]
• Hun-Soo Byun, Ph.D.

[Professor, Thermodynamics and Separation Processes, hsbyun@jnu.ac.kr]
• Soon-Do Yoon, Ph.D.
[Professor, Process and Control of Chemical Engineering Materials, yunsd03@jnu.ac.kr]
• Heon-Ho Jeong, Ph.D.
[Associate Professor, Bio-application Engineering, jeonghh29@jnu.ac.kr]

▮ Major in Biotechnology

• Jin-Man Kim, Ph.D.
[Professor, Molecular Biology, jinmank@jnu.ac.kr]
• Seung-Hwan Yang, Ph D.
[Professor, Cell Molecular Biotechnology, ymichigan@jnu.ac.kr]

▮ Major in Electrical and Semiconductor Engineering

• Nam-Sup Choi, Ph.D.
[Professor, Power Electronics, nschoi@jnu.ac.kr]
• Buhm Lee, Ph.D.
[Professor, Power Systems, buhmlee@jnu.ac.kr]
• Yang-Hee Joung, Ph.D.
[Professor, VLSI, Materials, jyanghee@jnu.ac.kr]
• Young-Chul Bae, Ph.D.
[Associate Professor, Chaos Synchronization, ycbae@jnu.ac.kr]
• Kyoung-Min Kim, Ph.D.
[Professor, Vision and Signal Processing, kkm@jnu.ac.kr]
• Seong-Jun Kang, Ph.D.
[Professor, VLSI, Processing and Design, sjkang@jnu.ac.kr]

▮ Major in Automotive Engineering

• Kyung-Jo Park, Ph.D.
[Professor, Dynamics and Vibration, kjpark40@jnu.ac.kr]
• Chung-Youb Kim, Ph.D.
[Professor, Solid Mechanics, kimcy@jnu.ac.kr]
• Hei-Cheon Yang, Ph.D.
[Professor, Thermal and Fluid Engineering, hcyang@jnu.ac.kr]
• Hoon Kim, Ph.D.
[Associate Professor, Mechanics Control and Measurements, khoon97@jnu.ac.kr]
• Bong-Ho Moon, Ph.D.
[Associate Professor, Tribology, mbh@jnu.ac.kr]

▮ Major in Multimedia Contents

• Jun-Seok Lee, Ph.D.
[Professor, Logistic Information and Computer Games, iexpert@jnu.ac.kr]
• Soon-Hee Han, Ph.D.
[Professor, Compiler and Mobile Systems, shhan@jnu.ac.kr]
• Young-Man Kang, Ph.D.
[Professor, Computer Network and Digital Broadcasting Systems, ymkang@jnu.ac.kr]
• Hee-Teak Ceong, Ph.D.
[Professor, Distributed Systems and Multimedia, htceong@jnu.ac.kr]
• Jeong-Seon Park, Ph.D.
[Professor, Multimedia Programming and Pattern Recognition, jpark@jnu.ac.kr]
• Won-Sik Jung, Ph.D.
[Professor, Film and Digital Media,

creator@jnu.ac.kr]

Major in Architectural Design

- Hyun-tae Kim, Ph.D.
  [Professor, Architectural Planning and Design, htkim@jnu.ac.kr]
- Joo-seong Jeong, Ph.D.
  [Professor, Architectural Planning and Design, jsjeong@jnu.ac.kr]
- Kum-ho Chung, Ph.D.
  [Professor, Architectural Planning and Design, kumho@jnu.ac.kr]
- Jun Taek Kim, Ph.D.
  [Professor, Architectural Design and urban Design, juntaek.kim@jnu..ac.kr]
- seungwan LIM
  [Professor, High Performance Design Lab, swl.gonsw@jnu..ac.kr]
- Jaehoon BAE
  [Professor, Steel Structures, Seismic design, skycity-bjh@jnu..ac.kr]
- sunhyung KIM
  [Professor, Architectural Planning, sunhyung.kim@chonnam.ac.kr]

Major in Global Master of Business Administration

- Won-il CHO, Ph.D.
  [Professor, Global Master of Business Administration, mengzi@jnu.ac.kr]
- Joeng-Su Park, Ph.D.
  [Professor, Global Master of Business Administration, joengsu@jnu.ac.kr]

Graduate School of Fisheries and Ocean Sciences

Contact Information
Phone: +82-61-659-7108
Fax: +82-61-659-7109
E-mail: love@jnu.ac.kr
URL: http://gradsea.jnu.ac.kr

Graduate Studies in the Graduate School of Fisheries and Ocean Sciences

The Graduate School of Fisheries and Ocean Sciences was authorized by the Ministry of Education to open eight academic units (Department of Aquaculture, Ocean Environmental System Program, Department of Ocean Engineering, Department of Marine Production Management, Power System Engineering, Marine Food Science and Technology, Department of Aqua life Medicine) with an entrance quota of 30 applicants in October 2005. The Graduate School of Fisheries and Ocean Sciences offers night classes, and its master's program requires two-and-a-half years to complete. Applicants who apply for any program in the school are required to hold a bachelor's degree from a domestic or international university. This Graduate School aims to educate students on basic and practical theories and to provide research development that is applied to harbors, marine transport, marine resources, fishing industries, fish-raising industries, marine bio-manipulation, and food industries.

Degree Requirements

Credit Requirements

Applicants who apply for admission into the master's degree program should have one of the following qualifications at the time of application:

- Thesis degree: more than 24 credits
- Non-thesis degree: more than 36 credits

Foreign Language (English) and Comprehensive Final Examination

- Students taking the foreign language test should acquire more than 12 credits.
- The comprehensive final examination consists of three subjects. Applicants taking the examination should acquire more than 18 credits.

Preparation of Thesis

The master's thesis should be prepared using the Guidelines for the Preparation of Theses, available from the Graduate School.

Submission of Thesis

Students who pass the foreign language test and comprehensive final examination, and complete degree program requirements or are expected to complete the degree program requirements in the semester of submission can submit a thesis.

■ Advisors

The Department Head may designate a faculty member for each student upon admission to guide them in their studies.

■ Limitations on Advisors

A faculty member may not be assigned more than three students to advise per year.

Department of Power System Engineering

Contact Information
Phone: +82-61-659-7130
Fax: +82-61-659-7139
E-mail: engine@jnu.ac.kr
URL: http://engineer.chonnam.ac.kr/

■ Graduate Studies in Power System Engineering

Power System Engineering is an academic field combining the mechanical engineering and the electrical/electronics engineering. Power System Engineering deals with the design, manufacture, control, and management of power machinery, thermal-fluid machinery, electrical/electronics machinery, etc. The Department of Power System Engineering aims for nurturing experts with state-of-the-art technology in the field of power system engineering. The department consists of five laboratories: internal combustion engine, hydraulic-pneumatic control, heat-fluid, applied mechanics, and electro-mechanical energy conversion.

■ Degree Requirements

To earn a master's degree, graduate students should pass a foreign language test and a comprehensive final examination. Also, the students should have one of the following qualifications:

- Thesis degree: more than 24 credits
- Non-thesis degree: more than 36 credits

■ What Do You Study?

Advanced Gas Turbine
Advanced Solid Mechanics
Advanced Air Conditioning
Advanced Measurement System
Advanced Engineering Mathematics
Advanced Machine Tools
Advanced Machine Design
Advanced Mechanical Vibration Dynamics
Advanced Engine Design
AdvancedInternal Combustion Engine
Advanced Dynamics
Analysis of Dynamic System
Advanced Robotics
Advanced Mechatronics
Advanced Numerical Analysis
System Design(Capstone Design)
Advanced Combustion Engineering
Advanced Thermal Power Engineering
Advanced Thermodynamics
Advanced Heat Transfer
Advanced Hydraulics-Pneumatics Control
Advanced Hydraulic Engineering
Advanced Fluid Machinery
Electromagnetic field theory
Designand Control of Automatic System
Advanced Electric Machinery
Advanced Motor Control Theory
Advanced Accurate Machining
Advanced Optimal Design

Professors

- Kyong-Uk Yang, Ph.D.
  [Professor, Hydraulic-Pneumatic Control, yangku@jnu.ac.kr]
- Woo-Gyeong Wang, Ph.D.
  [Professor, Internal Combustion Engine. wangwk@jnu.ac.kr]
- Myung-Soo Choi, Ph.D.
  [Professor, Mechanical Vibration, engine@jnu.ac.kr]
- Kyung-Hun Shin, Ph.D.
  [Assistant Professor, Electric Machine. kshin@jnu.ac.kr]

Laboratories

- Applied Mechanics Lab
- Hydraulic-Pneumatic Control Lab
- Internal Combustion Engine Lab
- Heat-Fluid Lab
- Electro-Mechanical Energy Conversion Lab

Department of Aqualife Medicine

Contact Information
Phone: +82-61-659-7170
Fax: +82-61-659-7179
E-mail: sungju@jnu.ac.kr
URL: http://fishpath.jnu.ac.kr/

■ Graduate Studies in Aqualife Medicine

The Department of Aqualife Medicine revolves around the exploration of fish disease management and prevention strategies. Our department is composed of eight main laboratories: pathogenic microbiology, histopathology, fish disease diagnosis, environmental physiology, preventative medicine for fish, fish pharmacology, clinical fish pathology, fish virology and clinical diseases.

■ Degree Requirements

To get a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval. The foreign language and comprehensive examinations are administered in February and August of each year.

■ What Do You Study?

Research Methodology
Advanced Ontogeny
Advanced Invertebrate Anatomy
Microbial Genetics
Molecular Studies in Fish Pathology
Advanced Aquatic Toxicology
Applied Fish Pharmacology
Advanced Fish Immunology
Advanced Fish Histopathology
Advanced Fish Anatomy
Applied Aqualife Microbiology
Advanced Diagnostic Fish Pathology
Advanced Fish Pathology
Advanced Fish Disease and Nutrition
Prevention of Epizootics
Advanced Environmental Analysis
Advanced Environmental Physiology

■ Professors

- Eunheui Kim, Ph.D.
  [Professor, Pathogenic Bacteriology and Genetics, ehkim@jnu.ac.kr]
- Jung Sick Lee, Ph.D.
  [Professor, Fish and Shellfish Anatomy, ljs@jnu.ac.kr]
- Myung-Joo Oh, Ph.D.
  [Professor, Fish Virology and Parasitology,

ohmj@jnu.ac.kr]
• Heung-Yun Kim, Ph.D.
[Professor, Fish Physiology and Toxicophysiology, hykim@jnu.ac.kr]
• Sung-ju Jung, Ph.D.
[Professor, Fish Pathology and Immunology, sungju@jnu.ac.kr]
• So Young Kang, Ph.D.
[Professor, Fish Pharmacology and Pharmacognosy sykang1@jnu.ac.kr]
• Toyohiko Nishizawa, Ph.D.
[Professor, Virology and Cell Biology jjnishi@jnu.ac.kr]
• Wi-Sik Kim, Ph.D.
[Associate Professor, Clinical diseases, wisky@jnu.ac.kr]

Department of Maritime Police Science

Contact Information
Phone: +82-61-659-7180
Fax: +82-61-659-7189
E-mail: hosamms@jnu.ac.kr

Graduate Studies in Maritime Police Sciences

Due to South Korea being a peninsula and therefore facing the sea on three sides and the geopolitical nature of the region, there is growing importance for maritime law enforcement. We are therefore aiming at cultivating professionals in the Maritime Police and strengthening competitiveness in the workforce through further education. In addition, the academic and research-based composition of Maritime Police personnel with experience in various research fields are required to improve the organization.

Degree Requirements

To get a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle per semester; this may be adjusted to within 3 credits with the President's approval.

What Do You Study?

Advanced Criminal Law
Advanced Law of the Sea
Advanced Marine Engine
Advanced Vibration Analysis
Advanced Fisheries Law
Advanced Marine Safety
Advanced Criminology
Studies in Maritime Law
Advanced Marine Navigation
Studies in public law
Advanced Response of Marine Oil Pollution
Advanced Fisheries Management
Advanced Computer Aided Design
Studies in Maritime Traffic Law
Basic Studies in International Law
Advanced Criminal Procedure
Advanced Seamanship of Naval Vessel
Advanced Marine policing
Organization and Management
Advanced Theory of police Investigation
Advanced Ship Dynamics

Professors

- Dal-hyun Park, Ph.D.
  [Professor, Criminal Law,
  dhpark328@jnu.ac.kr]
- Duck-jong Jang, Ph.D.
  [Professor, Marine Safety,
  Navigation, Marine Pollution

response, jdj@jnu.ac.kr]
• Ki-Soo Lee, J.S.D.
[Professor, Criminal Law, Police Science, kslee@jnu.ac.kr]
• Ho-Sam Bang, Ph,D.
[Professor, International Law of the Sea, Maritime Law, hosamms@jnu.ac.kr]

Department of Marine Bio Food Science

Contact Information
Phone: +82-61-659-7210
Fax: +82-61-659-7219
E-mail: gnahn@jnu.ac.kr

■ Graduate Studies in Marine Bio Food Science

In the marine field, the Department of Marine Bio Food Science is leading the study of food material, quality, process, storage, distribution, sanitation, safety, and processing technologies.

The basic characteristics of marine food, marine products and development of multiple processing, the use of special functional ingredients for continued exploration concentrated focus on basic scientific literacy and to foster talent and value of marine food acquiring knowledge about the features and, Fisheries with the increase in food hygiene safety technical, process knowledge, quality improvement, the study of the spread of seafood by practicing in the field of marine fisheries industry to increase adaptability to lead the marine biotechnology industry is to nurture talent.

■ Degree Requirements

To obtain a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Special graduate school students may earn up to 6 credits in principle to semester. The foreign language and comprehensive examinations required are administered in February and August of each year.

■ What Do You Study?

Food Quality Control
Advanced Food Microbiology
Advanced Bio chemistry
Advanced Food Engineering
Advanced Food Enzymes
Advanced Nutritional Chemistry
Food Rheology
Advanced Food Preservation1
Advanced Canned Food1
Advanced Lipid Chemistry
Advanced Glucose Chemistry
Advanced Food Toxicology
Advanced Food Hygiene
Food Color Chemistry
Advanced Bioactive Substances
Food Stuff Technology
Marine Bioactive Substances
Advanced Antibiotics
Advanced Food Research
Advanced Food Chemistry
Food Analysis Technology
Advanced Food Flavour Chemistry
By-products Processing
Organoleptic Evaluation
Advanced Fermentation Technology
Lipid Food
Advanced Instrumental Analysis
Advanced Sea Weed Processing

Advanced Applied Microbiology
Nutritional Biochemistry
Functional Food Chemistry
Physical Properties of Food
Advanced Food Preservation2
Advanced Canned Food2
Advanced Vitamin Chemistry
Advanced Food Biotechnology
Advanced Food Analysis
Management for Food Hazard Point
Advanced Fisheries Chemistry
Advanced Food Additives
Advanced Seaweed Chemistry
Advanced Marine Resources Processing
Food Resources Processing

■ Professors

- Dong-Soo Kang, Ph.D.
  [Professor, Fisheries Chemistry, dskang@jnu.ac.kr]
- Sun-Jae Kim, Ph.D.
  [Professor, Food Safety, foodkims@jnu.ac.kr]
- Gin-Nae Ahn, Ph.D.
  [Professor, Marine Biotechnology, gnahn@jnu.ac.kr]
- Sun-Hee Cheong, Ph.D.
  [Professor, Functional Foods, sunny3843@jnu.ac.kr]

Department of Marine Production Management

Contact Information
Tel: +82 61 659 7120
Fax: +82 61 659 7129
E-mail: hhshin@jnu.ac.kr
URL: http://marine.jnu.ac.kr

■ Graduate Studies in Marine Production Management

The future of the marine environment requires sustainable management of marine biological resources such as the management of fisheries, high-quality seamanship skills and safe navigation, and marine reorganization with an emphasis on marine ecology awareness. The aim is to train competent and creative marine technical personnel and experts who will lead the marine production and shipping industry by educating theoretical and practical skills on marine production, marine navigation, and fishery systems.

■ Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to the appropriate graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

■ What Do You Study?

Thesis Research
Writing Thesis
Advanced Seamanship
Theory of Ship's Position Error
Theory of Vessel Motion
Fisheries Engineering
Fisheries Oceanography
Fishing Gear Engineering
Advanced Fishing Gear Design
Mechanice Fishing Gear Materials
Fishing Behavior
Advanced Fishing Technology
Fishing Physics
Fishing Vessel Ability
Fishing Machinery
Advanced Fishery Biology
Fisheries Data Processing
Fishing Ground Mechanism
Artificioa Reet Engineering
Fishing Mechanism
Advanced Pelagic Fishery Technology
Acoustics Fishing Methodology
Measuring Instrumentin Navigation
Advanced Theory of Navigation
Advanced Navigation
Advanced Fisheries Law
International Marine Law
Advanced Marine Mateorology
Oceangraph Environmentalism

Professors

- Doo-Jin Hwang, Ph.D.
  [Professor, Fisheries Acoustics, djhwang@jnu.ac.kr]
- Taeho Kim, Ph.D.
  [Professor, Fisheries Engineering, kimth@jnu.ac.kr]
- Hyong-Ho Shin, Ph.D.
  [Professor, Ship Navigation, hhshin@jnu.ac.kr]
- Jihoon Lee, Ph.D.
  [Professor, Fishing System, jihoon.lee@jnu.ac.kr]

Laboratories

- Fishing gear and Measurement technology Lab
- Navigation Lab
- Fishing gear·Fishing Methodology Lab
- fishery system Lab
- Fishery Resources and Information Lab

Department of Aqualife Science

Contact Information
Tel: +82-61-659-7160
Fax: +82-61-659-7169
URL: http://aqua.jnu.ac.kr

■ Graduate Studies in Aqualife Science

The Department of Aqualife science is designed for aquaculture awareness and the conservation of aquatic organisms.

The main target areas are fishery aquaculture and seaweed aquaculture through the study of resource ecology, ecosystem modeling, reproductive biology, Advanced Bio-diversity and Conservational Biology, fish physiology, fish feeds, and Aquafarm Environmental Ecology studies.

The purpose of this program is to produce experts and researchers in the field of aquaculture through intensive study and study of both basic and applied sciences.

■ Degree Requirements

Master's degree candidates are required to earn 24 credits over a minimum of 2 years and 6 months. Ph.D. candidates are required to earn an additional 36 credits. All graduate students are required to submit a thesis prior to graduation and pass a comprehensive exam and a foreign language exam. Students are encouraged to take 9 credits in their first semester. If their grade point average exceeds 4.0 in a semester, they are allowed to take up to 12 credits the following semester. Students are not allowed to take more than 6 credits of courses taught by their academic advisor in the first semester.

■ What Do You Study?

Advanced Genetics (3)
Advanced Developmental Biology (3)
Advanced Ichthyology (3)
Fishery Invertebrate Zoology (3)
Advanced FishFeeds (3)
Algal Physioecology (3)
Aquafarm Environmental Ecology (3)
Crustacea Culture (3)
Endocrinology (3)
Advanced Marine Fish Culture (3)
Management and Pathology of Aquatic Organism (3)
Invertebrate Zoology Culture of SeaWater (3)
Advanced Breeding Science (3)
Advanced Cell Biology (3)
Fish Population Dynamics Management (3)
Advanced Fisheries Administration (3)
Advanced Limmnology (3)
Advanced Feed Biology (3)
Advanced Biochemistry (3)
Advanced Fishery Animal Nutrition (3)
Advanced Phycocultivation (3)
Reproductive Ecology (3)
Advanced Marine Ecology (3)
Invertebrate Zoology Culture of FreshWater (3)

Taxnomy of Invertebrate (3)
Advanced Fish of Fresh-Water Culture (3)
Fish Ecology (3)
Semina 3 (3)
Semina 4 (3)
Semina 2 (3)
Thesis Research (3)

■ Professors

- Won Kyo Lee, Ph.D.
  [Professor. Reproduction organism
  wklee@jnu.ac.kr, +82-61-659-7161]
- Kyoung Ho Kang, Ph.D.
  [Professor. Invertebrate Culture
  mobidic@jnu.ac.kr, +82-61-659-7165]
- Kyeong Ho Han, Ph.D.
  [Professor. Ichthyology Ecology and Taxonomy.
  aqua05@jnu.ac.kr, +82-61-659-7163]
- Kang Hee Kho, Ph.D.
  [Professor. Molecular Physiology
  kkh@jnu.ac.kr, +82-61-659-7168]
- Sang Duk Choi, Ph.D.
  [Professor. Aquaculture Environment Ecology
  choisd@jnu.ac.kr, +82-61-659-7166]

Naval Architecture and Ocean Engineering

Contact Information
Phone: +82-61-659-7150
Fax: +82-61-659-7159
E-mail: parkih@jnu.ac.kr

■ Graduate Studies in Naval Architecture and Ocean Engineering

Naval architecture and ocean engineering focuses on research and education in a variety of areas from basic theory to advanced technology on ships and offshore structures. The final goal of the Department lies in the design and production of reliable and cost-effective transport systems and offshore structures which can carry out missions successfully in harsh ocean environments. The research scopes of naval architecture consist of resistance and propulsion, propulsors, structures and materials, motion and maneuverability, noise and vibration, and welding. Ocean engineering involves various scopes of technical problems that arise during the design, construction, load-out, and operation of various forms of structures developed to meet the needs of the offshore petroleum and construction industries. Research on the ocean environment itself is also one of the major research fields of the Department. To meet increasingly complex technical demands, the Department extends research fields to cover rigorous analysis of detailed subjects using powerful computers. In particular, it offers on-board training courses on university-owned research and training ships.

■ Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to the appropriate graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

■ What Do You Study?

Advance measurements engineering (3)
Advance manufacturing automation (3)
Ecosystem Engineering (3)
Advance manufacturing engineering of ship (3)
Advanced Theory of Ship Design (3)
Advance materials Science of ship (3)
Advanced Theory of Ship Propulsion (3)
Advanced Theory of Ship Resistance (3)
Advanced Fisheries Oceanography (3)
Advanced Numerical Methods (3)
Advanced Coastal Oceanography (3)
Advance welding process (3)
Advanced Hydrodynamics (3)
Finite Element Method (3)
Advanced Optimal Design (3)
Advanced Theory of Special Ships (3)
Advanced Potential Theory (3)
Sediment Transport and Littoral Processes (3)

AdvancedCoastalandHarborEnginering (3)
Coastal Numerical Modelling1 (3)
Coastal Numerical Modelling2 (3)
Advanced Marine Measurement (3)
Advanced Ocean Geoinformatics (3)
Introduction to Ocean Thought (3)
Advanced Dynamical Oceanography (3)
Advanced Operational Oceanography (3)
Advanced Ocean Remote Sensing (3)
Advanced Ocean Information Analysis (3)
Turbulent Diffusion Theory in the Ocean (3)
Advanced Marine Environmental Engineering (3)

■ Professors

- Moon-Ock Lee, Ph.D.
  [Professor, Environmental Hydraulics (Coastal Oceanography), leemo@jnu.ac.kr]
- Ok-Sam Kim, Ph.D.
  [Professor, Manufacturing Engineering of Ship, kos@jnu.ac.kr]
- Il-Heum Park, Ph.D.
  [Professor, Coastal and Ocean Engineering, parkih@jnu.ac.kr]
- Jong-Kyu Kim, Ph.D.
  [Professor, Ocean Informatics, kimjk@jnu.ac.kr]
- Hee-Jong Choi, Ph.D.
  [Professor, Ship Design, chiohj@jnu.ac.kr]
- Jee-Hun Song, Ph.D.
  [Professor, Ship Structural Vibration, jhs.@jnu.ac.kr]

Department of Environmental Oceanography

Contact Information
Phone: +82-61-659-7140
Fax: +82-61-659-7149
E-mail: shinhc@jnu.ac.kr

Graduate Studies in the Ocean Environmental Systems

The Department of Ocean Environment Systems aims to carry out scientific and technological studies of the marine environment, the origin of life on earth. For students aspiring to be marine researchers, the Ocean Environment System Program is designed to provide advanced training in a specialized field.

Degree Requirements

To earn a master's degree, students must accumulate over 24 credits over a minimum of 2 years and 6 months. Graduate students are also able to earn research credits according to graduate school regulations. Special graduate school students may earn up to 6 credits in principle; this may be adjusted to within 3 credits with the President's approval.

When students take lectures offered in the special graduate school (including supplementary subjects), master's degree candidates must achieve a grade of C or higher, while Ph.D. candidates must achieve a grade of B or higher.

What Do You Study?

Advanced Aquatic Environmental Processes (3)
Advanced Biology of Water Pollution (3)
Advanced Chemical Oceanography (3)
Advanced Coastal Oceanography (3)
Advanced Community Ecology (3)
Advanced Ecology of Fisheries Resources (3)
Advanced Estuary Ecology 1 (3)
Advanced Estuary Ecology 2 (3)
Advanced Evolutionary Ecology (3)
Advanced Fisheries Oceanography (3)

Major Electives

Advanced Geological Oceanography 1 (3)
Advanced Geological Oceanography 2 (3)
Advanced Intertidal Ecology (3)
Advanced Marine Biology of Benthos (3)
Advanced Marine Conservation Biology (3)
Advanced Marine Conservation Ecology (3)
Advanced Marine Ecology (3)
Advanced Deep Sea Biology (3)
Advanced Marine Planktology (3)
Advanced Marine Pollution (3)
Advanced Marine Pollution Control (3)
Advanced Marine Pollution Ecology (3)
Advanced Marine Sedimentology (3)
Advanced Marine Zooplanktology (3)
Advanced Ocean Bio-Genetics (3)
Advanced Ocean-Ecotoxicology 1 (3)
Advanced Ocean-Ecotoxicology 2 (3)
Advanced Ocean Environmental Condition (3)
Advanced Physical Oceanography 1 (3)
Advanced Physical Oceanography 2 (3)

Advanced Red Tides (3)
Environment Analysis of Fishing Area (3)
Environment of Fisheries Oceanography (3)
Fisheries Physical Oceanography (3)
Fluid Dynamics for Oceanography (3)
Instrumental Analytical Chemistry (3)
Marine Environmental Ecology (3)
Ocean Animal Behavior (3)
Ocean Eco-informatics (3)
Paleo Oceanography 1 (3)
Paleo Oceanography 2 (3)
Regional Oceanography (3)
Water Quality Control of Aquatic Culture Systems (3)
Zooplankton Taxonomy (3)

■ Professors

- Yang Ho Yoon, Ph.D.
  [Professor, Phytoplankton Ecology and Environmental Science, yoonyh@jnu.ac.kr]
- Yeon Gyu Lee, Ph.D.
  [Professor, Marine Geology, lyg6342@jnu.ac.kr]
- Hyo-Sang Choo, Ph.D.
  [Professor, Physical Oceanography, choo@jnu.ac.kr]
- Hyun Chool Shin, Ph.D.
  [Professor. Marine Benthic Ecology, shinhc@jnu.ac.kr]
- Hyeon Seo Cho, Ph.D.
  [Professor. Chemical Oceanography, hscho@jnu.ac.kr]
- Ho Young Soh, Ph.D.
  [Professor, Zooplankton systematics and Ecology, hysoh@jnu.ac.kr]
- Ihn-Sil Kwak, Ph.D.
  [Professor, Zoology, iskwak@jnu.ac.kr]

Graduate School of Public Policy

Contact Information
Phone: +82-62-530-5195~6
Fax: +82-62-530-2266
URL: http://cnugspp.jnu.ac.kr

Graduate Studies in our School

Since 1980, the Graduate School of Public Policy has focused its efforts on teaching and studying the modern theories and applications of public policy. It also aims to contribute the development of the nation and local communities by educating competent leaders and administrators.

Degree Requirements

Candidates eligible for the master's degree program are those who have a bachelor's degree, or who are recognized by the Ministry of Education as having equivalent qualifications to the coursework requirements of a regular four-year college program.

Our school has four academic divisions: ① General Administration major, ② Society, Culture and Welfare Policy Division, and ③ Real estate & Community Development Policy Division, and ④ Psychological Health Services. The length of the each division's coursework shall normally be two years and six months. A period of no longer than four years and six months shall be allowed for completion of the master's degree program.

The number of class days must exceed 180 for each academic year. A minimum of 24 credits are required for completion of the master's degree. A student who has a different major area from that of his undergraduate courses will have to take some undergraduate courses. The GPA should be 3.0(B) or better.

Up to twelve credits earned at other foreign or domestic universities and colleges can be transferred for the master's degree program of the School. However, a maximum of 6 credits earned at other foreign or domestic universities or colleges before entering our school may be transferred for the master's degree program.

The courses offered in our school are evening classes. Students are required to attend more than two-thirds of their classes to get credits.

Master's degrees shall be conferred upon the candidate who has fulfilled all of these requirements: ① 24 credits hours, ② comprehensive examination, and ③ additional 6 credit hours or thesis writing and oral examination.

Our school may offer non-credit programs to individuals who need specialized or technical knowledge in order to carry out their jobs. International students or government officials who have equivalent qualifications may be accepted as special supernumerary students through an extra examination.

What Do You Study

General Administration major

Urban Administration
Public Personnel Administration
Research Methods in Public Policy
Local Administration
Constitutional Law
Korean Politics
Introduction of Modern Public Administration
Policy process theory
Governmental Budgeting
General Theory of Administrative Law
Public Organization Theory
Administrative Management
Public Policy Analysis and evaluation
Welfare Administration
Development Cooperation Administrative Law
Local Autonomy
Theory On Local Public Finance
Korean Public Administration
Philosophy of Public Administration
Public Conflict Management
Electronic Government
Comparative Administration
Regulation Policy
Science and Technology Policy
Environmental Policy
Local Governing Police System
Political Process
Seminar on Local Council
Gender Policy
International Politics
Foreing Policy Analysis
Law of Local Autonomy
Law of Labour
Criminal Law & Economic Crimes
Police Administration
Theory of Disaster Management
Theory of Korea Unification Policy
Economic Policy
Organizational Behavior
Market and Government

Society, Culture and Welfare Policy Division

Contemporary Society & Media
Understanding of modern Society
Theories of Social Change
Seminar on visual sociology
Seminar on Community
Modern Society and Human Rights
Gender and Society
Deviation and Control
Social psychology
Cultural psychology
Organizational psychology
Information Policy Theory
Archival Records value theory
Public Information Service
Seminar on Archival Culture
Seminar on Reading Culture
Seminar on Information Culture
Seminar on Information Society
Seminar on Local Media
Seminar on mass Culture
Seminar on Cultural Study
Media & PR
Seminar on Media Policy
Theory of Culture Industry
Theory of Culture Policy
Seminar on Cultural Management
Seminar on Culture and Tourism Policy
Globalization & Local Culture
Culture Policy of Cultural Interaction
Culture Policy of Multiculturalism
History on the Cultural Policy
Introduction to Social Welfare
Social welfare policy
Welfare for the Elderly
Social welfare program development and evaluation
Social Work with Families
Seminar on Local Community
Multiculturalism and Social Welfare
Cultural resources & DB Construction theory
Social Welfare case management
Human Behavior and Social Environment

Social Welfare Law

Real estate & Community Development Policy Division

Regional Development Policy
Real Estate Policy
Urban Planning
Real Estate Industry
Urban Policy
Urban Regeneration Policy
Transportation Policy
Local culture theory
Case studies on Urban Policy
Case Studies on Regional Policy
Tourism development Policy
Rural Development Policy
Seminar on Community development
Urban Growth Management
Case Studies on Real Estate Policy
Green Urban Policy
Regional Landscape Planning
Seminar on Urban & Regional Economic Policy
Future Urban Structure
Case studies on Gwangju Urban Policy
Case studies on Jeonnam Regional development Policy
History of urban development
Real Estate Development
Modern Urban Theory

Psychological Health Services

Health Psychology
Positive psychology
Counseling psychology
Communication skills
Personality theories
Behavioral modification
Psychology of interpersonal relationship
Psychological health in crisis and disaster
Psychological health service practice in field
Criminal psychology
Psychology of addictive behavior
Psychology of sexual behavior
Brain and behavior
Seminar in psychological health service policy
Special issues in psychological health service

Graduate School of Plant Protection and Quarantine

Contact Information
Phone: +82-62-530-0397
Fax: +82-62-530-0398
URL: http://gpq.jnu.ac.kr

■ Graduate Studies in our School

The purpose of the Graduate School of Plant Protection and Quarantine is to train specialized personnel in diseases and pests control and inspection by focusing on practical field application, aiming to effectively protect crops from diseases and pests.

■ Degree Requirements

▪ Degree Requirements

① Type of degree: Master of Agriculture

② Degree Requirements: 2.5 years (5 semesters) enrollment, completion of 27 credits, and submission of a master's thesis

▪ Comprehensive Examination

① The method and timing of the comprehensive examination are determined by the graduate school dean each semester.

② To take the comprehensive examination, students must acquire 18 credits or more.

③ The comprehensive examination is conducted by examiners appointed by the dean from the faculty of the university.

④ The comprehensive examination is evaluated on a scale of 100 points for each subject and a pass is awarded to those who earn an average score of 70 points or higher.

▪ Thesis Writing

The degree-seeking thesis must be prepared in accordance with the regulations for preparing master's degree theses at this graduate school.

▪ Thesis Submission

① Those who have passed the comprehensive examination and have obtained the required credits for each course or are expected to obtain them by the end of the semester may submit a master's degree-seeking thesis and must pay the prescribed examination fee.

② The examination fee for the master's thesis is determined by the graduate school dean after deliberation by the graduate school committee.

▪ Limitation on the number of advised students

The number of students advised by each advisor is determined by the internal regulations of the department.

What Do You Study

Monitoring and Diagnosis of Plant Diseases
Field Applied Pest Management
Practice of Advanced Plant Quarantine
Practical molecular identification of phytopathogens
On-site application of biopesticides
Application Practice of Organic Materials
Practice of Agricultural Environment management
Application of beneficial microorganisms
Crop bacterial disease control

X. UnderGraduate Schools

College of Nursing

Contact Information
Tel: +82-62-530-4930-4
Fax: +82-62-220-4544
E-mail: a1045@jnu.ac.kr
URL: http://nursing.jnu.ac.kr

Department

- Department of Nursing

Affiliated Research Centers

- Health & Nursing Service Design R&D Center
- Center for Evidence-Based Nursing Education & Research
- CARE Center
- Center for Mental Health Promotion
- Center for Multicultural Family Health Promotion

Nursing

Contact Information
Phone: +82-62-530-4937, 4939
Fax: +82-62-227-4009
E-mail: a1045@jnu.ac.kr
URL: http://nursing.jnu.ac.kr/

What is Nursing?

Nursing is defined as the diagnosis and treatment of human responses to health and illness. The following phenomena are the focus of nursing care and research:

- Self-care process
- Physiological and pathophysiological processes such as rest, sleep, respiration, circulation, reproduction, activity, nutrition, elimination, skin, sexuality, and communication
- Comfort, pain, and discomfort
- Emotions related to health and illness
- Meanings ascribed to health and illness
- Decision making and the ability to make choices
- Perceptual orientations such as self-image and control over one's body and environment
- Transitions across the lifespan, such as birth, growth, development, and death
- Affiliative relationships, including freedom from oppression and abuse
- Environmental systems: Safety and Quality Management

College of Nursing at Chonnam National University

The Department of Nursing, which held its centennial anniversary in 2012, has the longest history among Chonnam National University's numerous departments. In 2005, the department was promoted to a nursing college, defining CNU as a leader of nursing in the Honam area. Based on truth, creation, and service, which are the missions of CNU, the educational purpose of the College of Nursing is to help students learn scientific nursing, knowledge, respect for clients they encounter in a variety of clinical settings, and develop communication skills necessary for collaborating with health professionals from other disciplines. Furthermore, the undergraduate curriculum is focused on training creative and talented global nurses as well as creating new jobs via innovative teaching/learning strategies.

After 4 years of study, students acquire licensure through the national board of nursing examination.

Professors

- Oh, Sang-Eun, Ph.D. [Professor, Pediatric Nursing,

seoh@jnu.ac.kr]
- Jang, Keum-Seong, Ph.D.
[Professor, Nursing Management, jangks@jnu.ac.kr]
- Choi, Ja-Yun, Ph.D.
[Professor, Adult Nursing, choijy@jnu.ac.kr]
- Chung, Hyang-In, Ph.D.
[Professor, Nursing Policy and Research, hchoch@hanmail.net]
- Kim, Jeong-Sun, Ph.D.
[Professor, Gerontological Nursing, kjs0114@jnu.ac.kr]
- Kweon, Young-Ran, Ph.D.
[Professor, Mental Health and Psychiatric, yrk@jnu.ac.kr]
- Yoo, Sung-Hee, Ph.D.
[Professor, Adult Nursing, shyoo@jnu.ac.kr]
- Chae, Duckhee, Ph.D.
[Professor, Community Health Nursing, dheechae@jnu.ac.kr]
- Lee, Seon-Ah, Ph.D.
[Professor, Women's Health Nursing, salee@jnu.ac.kr]
- An, Min-Jeong, Ph.D.
[Associate Professor, Adult Nursing, anminjeong@jnu.ac.kr]
- Kim, Youn-Kyoung, Ph.D.
[Associate Professor, Community Health Nursing, ykim0307@jnu.ac.kr]
- Park, Hyun-young, Ph.D.
[Associate Professor, Fundamentals of Nursing, hypark@jnu.ac.kr]
- Yang, Hyun-Ju, Ph.D.
[Associate Professor, Fundamentals of Nursing, huy130@jnu.ac.kr]
- Moon, Sun-Hee, Ph.D.
[Associate Professor, Adult Nursing, sunnymon@jnu.ac.kr]
- Cho, In-Young, Ph.D.
[Associate Professor, Pediatric Nursing, kikin1024@jnu.ac.kr]
- Kim, Bo-young, Ph.D.
[Associate Professor, Mental Health and Psychiatric, bkimjhu21@jnu.ac.kr]
- Park, Jin-kyung, Ph.D.
[Assistant Professor, Nursing Management, carpe@jnu.ac.kr]
- Yu, Soo-Young, Ph.D.
[Assistant Professor, Women's Health Nursing, sooyoungyu@jnu.ac.kr]

■ Professors Emeritus

- Kim, Young-Sook Ph.D.
[hannaysk@yahoo.co.kr]
- Kim, Mi-Won Ph.D.
[mwkim@jnu.ac.kr]
- Park, Oh-Jang Ph.D.
[ojpark@jnu.ac.kr]
- Lee, Chung-Sook Ph.D.
[julia4779@hanmail.net]
- Cho, Bok-Hee, Ph.D.
[bhcho@jnu.ac.kr]
- Lee, Young-Sook Ph.D.
[yslee@jnu.ac.kr]
- Kang, Hae-Young, Ph.D.
[hykang@jnu.ac.kr]
- Hong, Mi-Soon, Ph.D.
[mshong@jnu.ac.kr]
- Park, In-Hyae, Ph.D.
[ihpark23@jnu.ac.kr]
- Choi, Soon-Hee, Ph.D.
[choish@.jnu.ac.kr]
- Lee, Eun-Sook, Ph.D.
[eslee4347@jnu.ac.kr]
- So, Hyang-Sook, Ph.D.
[hsso0075@jnu.ac.kr]
- Kim, Su-Jin, Ph.D.
[pinehillkim@naver.com]

■ Degree Requirements

To earn a bachelor's degree, completion of 130 credit hour courses is required, including 27 credit hours of general cultural courses, 78 credit hours of major core courses, and 35 credit hours of major elective courses.

■ What Do You Study

The freshman courses consist mostly of liberal arts subjects. Students take 10-12 courses, including General Biology 2, Convergence Thinking and Creative Problem Solving, Anatomy, and Introduction to Nursing, all of which are major requirements.

During the sophomore year, students undertake theory and practice in the principles of nursing care and basic health-related science courses and electives.

During the junior and senior years, students study theory and practice in Adult Care, Pediatrics, Women's Health Issues, Psychiatry, and Community Health Nursing. In addition, Nursing research and Evidence-based nursing must be completed. Electives are Gerontological Nursing, Clinical Nursing Practice and Theory, Health Education, and Multicultural Nursing.

▮ Core Courses (89 credits)

Preclinical Practicum (1)
Mental Health and Psychiatric Nursing 2 (2)
Mental Health and Psychiatric Nursing Practicum (2)
Nursing Management 1 (2)
Evidence-Based Practice and Nursing Research (3)
Adult Health Nursing 3 (2)
Adult Health Nursing Practicum 3 (2)
Women's Health Nursing2 (2)
Women's Health Nursing Practicum (2)
Community Health Nursing 1 (2)
Comprehensive Simulation1 (1)
Nursing Management 2 (2)
Nursing Management Practicum (2)
Adult Health Nursing 4 (2)
Adult Health Nursing Practicum 4 (2)
Child Health Nursing 2 (2)
Child Health Nursing Practicum (2)
Community Health Nursing 2 (2)
Community Health Nursing Practicum (2)
Empathy Nursing Design (2)
Professional Communication in Nursing (2)
Evidence-Based Nursing Practicum (2)
Healthcare relevant laws and Bioethics (2)
Comprehensive Simulation2 (1)
Introduction to Nursing (2)
Convergence Thinking and Creative Problem Solving (2)
Gross Anatomy (3)
Fundamentals of Nursing 1 (3)
Fundamentals of Nursing Practice 1 (1)
Microbiology (2)
Pathophysiology 1 (2)
Pathophysiology 2 (2)
Human Understanding and Communication (3)
Health Assessment (2)
Health Assessment Practice (1)
Fundamentals of Nursing 2 (2)
Fundamentals of Nursing Practice 2 (1)
Adult Health Nursing 1 (3)
Child Health Nursing 1 (2)
Pharmacology (2)
Mental Health and Psychiatric Nursing 1 (2)
Adult Health Nursing 2 (2)

Adult Health Nursing Practicum 1 (2)
Adult Health Nursing Practicum 2 (2)
Women's Health Nursing1 (2)

Electives

Global Citizenship (2)
Culture and Nursing Care (2)
Nursing Informatics (2)
Public Health (2)
Nutrition in Health & Nursing Care (2)
Gerontological Nursing (2)
Gerontological Nursing Practicum (1)
Complementary and Alternative Therapy (2)
Data Analysis (2)
Nursing & Artificial Intelligence (2)
Nursing Counseling with Family in Crisis (2)
Planning & Evaluating Health Programs (2)
Curriculum Design in Health Education (2)
Health Policy & Nursing Leadership (2)
Critical and Emergency Care Nursing (2)
Critical Care and Emergency Nursing Practicum (2)
Community Mental Health Nursing Practicum (1)

Careers

- Clinical Nurses
- Educators: Researchers, Professor, School Nurses
- Administrators: Civil Servants Related Health, Government Employees
- Community Nurses: Occupational Health Nurses, Public Health Nurses
- Other: Child Care Centers, Army Nurses, Welfare Facilities, Nursing Home Nursing Homes

College of Business Administration

Contact Information
Phone: +82-62-530-1404~7, 1412, 1506
Fax: +82-62-530-1539
E-mail: cba@jnu.ac.kr
URL: http://cba.jnu.ac.kr

■ Profile of the College of Business Administration

The college was established in 1952, as one of the five founding colleges of Chonnam National University (CNU). It has turned out over 15,000 highly talented and qualified business professionals since 1955. The college consists of the Faculty of Business Administration and the Faculty of Economics. It offers masters and doctoral programs in 5 major areas of study.

■ Educational Goals and Strategies

The vision of the college is to become one of the leading business schools in Korea. The college's mission is to cultivate leaders in various business sectors of society. It aims to produce highly competent graduates with a balance between theory and practice to develop the organizations in which they are employed. The College aspires to pursue the educational values of in-depth professional knowledge, high ethical standards and integrity, interdisciplinary teamwork, entrepreneurial spirit, global perspective, productive collaboration, and development of individual potential. To accomplish these values, the College has as its key educational goals for the cultivation of its students the following areas:

- Practice-oriented knowledge: profound professional knowledge in business, ability to apply theory to solve real life problems
- Global perspective: foreign language ability, global business issues
- Innovative thinking and entrepreneurial spirit: entrepreneurial spirit and innovative activity, ability to make creative decisions
- Ethical understanding: ethical aspects of complex business environments

Faculty of Business Administration

Contact Information
Phone: +82-62-530-1430, 1450, 1470
Fax: +82-62-530-1449
E-mail: cba@jnu.ac.kr
URL: http://biz.ac.kr

■ Faculty of Business Administration

The Faculty of Business Administration helps students learn about general management theories and methodologies in logical and systematic ways. The learning goals of the faculty are to deepen practice-oriented professional management knowledge, promote global perspectives, enhance innovative thinking, and nurture entrepreneurship and ethical understanding with integrity. The faculty aims to cultivate competent and creative business leaders by instilling problem solving capabilities.

- Marketing: To learn a diverse range of issues of how to identify customers' potential needs, design products and services, promote them in effective ways, and set prices in order to create values to customers as well as firms and the society
- Operations and Technology management: To study various management topics encompassing operations and technology strategies, production planning, implementation, controlling, and coordination within an organization as well as among organizations in order to produce and deliver products and services in an efficient and effective way
- Organizational Behavior and Human Resource Management: To learn various issues regarding human behavior in an organization, human resource development at micro-levels as well as organization design and development in the macro-level
- Finance: To study various theories and cutting-edge practical financial techniques related to funding and running of capital for effective management of a firm, dividend policies, investment decisions, and management of financial institutions
- Accounting: To learn and train in methods related to a set of activities of in the gathering, booking, summarizing, and controlling of data and monetary information as well as communicating within an organization and with external stake-holders
- Management information systems: To learn a wide range of theories and practices regarding how to strategically utilize IT, the Internet, and various information resources of a firm
- International business: To cultivate practical decision making and problem solving capabilities under global business environments by learning theories and international trade, FDI, international finance, and the marketing of multinational enterprises

Professors

- Il Sang Ko, Ph.D.
  [Professor, MIS, isko@jnu.ac.kr]
- Joon Ko, Ph.D.
  [Professor, MIS, kjoon@jnu.ac.kr]
- Min-Jeong Kim, Ph.D.
  [Professor, Human Resource Management and Organizational Behavior, minjkim@jnu.ac.kr]
- Sang-Hee Kim, Ph.D.
  [Professor, Marketing, ksh2851@jnu.ac.kr]
- Seon-Mi Kim, Ph.D.
  [Associate Professor, Accounting, smkim09@jnu.ac.kr]
- Eun-Hee Kim, Ph.D
  [Professor, Technology Management, eheekim@jnu.ac.kr]
- Jae-Yun Kim, Ph.D
  [Professor, Operations Management, jaeyun@jnu.ac.kr]
- Ji-Yoon Kim, Ph.D.
  [Associate Professor, International Business, jykim2016@jnu.ac.kr]
- Chong-Kil Nah, Ph.D.
  [Professor, Financial Accounting, cknah@jnu.ac.kr]
- So-Ra Park, Ph.D.
  [Assistant Professor, MIS, doorae0207@jnu.ac.kr]
- Soo-hoon Park, Ph.D.
  [Assistant Professor, Service&Operations Management, soohoon.park@jnu.ac.kr]
- Hyun-Jae Park, Ph.D.
  [Professor, Strategic Management, daniel@jnu.ac.kr]
- Kwang-Il Bae, Ph.D.
  [Professor, Finance, k.bae@jnu.ac.kr]
- Jae-Do Song, Ph.D.
  [Professor, Marketing, sjaedo@jnu.ac.kr]
- Young-Zik, Shin, Ph.D.
  [Assistant Professor, Managerial Accounting, yzshin@jnu.ac.kr]
- Duk-Sup Shim, Ph.D.
  [Professor, Human Resource Management and Organization Studies, dsshim71@jnu.ac.kr]
- Chae-Yeol Yang, Ph.D.
  [Professor, Finance, cyyang@jnu.ac.kr]
- Ji-Seon Yu, Ph.D.
  [Associate Professor, Tax Accounting, jsyoo@jnu.ac.kr]
- Hyun Sik Yoon, Ph.D.
  [Associate Professor, MIS, Dr.Yoon@jnu.ac.kr]
- Kang-Mun Lee, Ph.D.
  [Associate Professor, International Business, km2310@jnu.ac.kr]
- Sang-Jun Lee, Ph.D.
  [Professor, MIS, s-lee@jnu.ac.kr]
- Su-Yol Lee, Ph.D.
  [Professor, Environmental and Operations Management, leesuyol@jnu.ac.kr]
- Su-Jin Lee, Ph.D.
  [Associate Professor, Organizational Behavior and Leadership, soojinlee@jnu.ac.kr]
- Young-Je Im, Ph.D.
  [Assistant Professor, Financial Accounting, yjeim@jnu.ac.kr]
- Myung-Sook Jun, Ph.D.
  [Professor, Human Resource Management and Industrial Relations, msjun@jnu.ac.kr]
- Sung-Il Jeon, Ph.D.
  [Professor, Financial Accounting, sijeon@jnu.ac.kr]
- Yong-Ki Jung, Ph.D.
  [Professor, Accounting Information Systems, ykchung@jnu.ac.kr]
- Ki-Ju Cheong, Ph.D.
  [Professor, Marketing, kcheong3@chonnam.ac.kr]
- Geon Cho, Ph.D.
  [Professor, Operations Management, gcho@jnu.ac.kr]
- Sung-Do Cho, Ph.D.
  [Professor, Marketing, matt@chonnam.ac.kr]
- Sung-Ho Choi, Ph.D.

[Professor, Finance, shchoi@jnu.ac.kr]
- Yong-Duk Choi, Ph.D.
  [Associate Professor, Organizational Behavior and Leadership, ydchoi@jnu.ac.kr]
- Ung-Yong Choi, Ph.D.
  [Professor, Cost and Managerial Accounting, uychoi@jnu.ac.kr]
- Ji-Ho Choi, Ph.D.
  [Professor, Marketing, jihocool@jnu.ac.kr]
- Byoung-Sop Han, Ph.D.
  [Professor, International Business, hanbs@jnu.ac.kr]

■ Degree Requirements

Students are required to earn more than 130 credits. Among the 130 credits, students must earn at least 45 credits from Business Administration courses. If students take more than 45 credits from other major courses, they will have earned a joint-degree (double major). Students who earn at least 21 credits from other major courses will have earned a minor. Students who earn the minimum major credit requirements (45) by 21 credits will have earned an intensive major.

■ What Do You Study?

BUS2020 Management Information System
BUS2012 Organizational Behavior
BUS2004 Intermediate Accounting1
BUS2018 Marketing Management
BUS2017 Financial Management
BUS3009 Production & Operations Management
UNV4008 Field Practice1
BUS1001 Principles of Management
BUS1003 Introduction to International Trade
BUS1002 Principles of Accounting
BUS2013 Mathematics for Management
BUS2032 Management Information and Big Data
BUS2014 Organization Theory
BUS2031 Business Communications and Negotiation
BUS2001 Business Statistics
BUS2027 Introduction to Civil Law
BUS2010 Managerial Accounting Practices
BUS2003 Managerial Accounting 1
BUS2011 Financial Accounting Practices
BUS2015 Managerial Accounting 2
BUS2035 Global Business Management
BUS2021 Business Law
BUS2030 Managerial Decision Making
BUS3011 Human Resources Management
BUS2029 Computerized Accounting
BUS2023 Intermediate Accounting2
BUS3012 Management Analysis
BUS3006 Advanced Accounting
BUS3005 Management of Multinational Enterprise
BUS3008 Tax Accounting1
BUS3001 Consumer Behavior
BUS3002 Investment Theory
BUS3003 Auditing
BUS3004 Accounting Information System
BUS3018 International Finance Management
BUS3034 Understanding and Using of Multimedia
BUS3021 Insurance
BUS3015 Tax Accounting2
BUS3014 Marketing Research
BUS3016 Strategic Management
BUS3033 Governmental Accounting
BUS3022 Organizational Development
BUS3030 Starting Business and Small Business Management
BUS3035 Introduction to e-Business
BUS4025 Management Innovation
BUS3031 Global Marketing
BUS4005 Financial Institution Management
BUS4003 Labor Relations
BUS3024 International Trade Practice

BUS4026 Service Marketing
BUS4028 Business Ethics
BUS4032 Quality Management and Environmental Management
BUS4033 Knowledge Management and Intellectual Property Right Management
BUS4034 Business Case Seminar
BUS4031 Options, Futures, And Other Derivatives
BUS4023 Advertising Management
BUS9081 Global Value Chain Management
BUS4035 Management of Technology and Innovation
BUS9072 Social Entrepreneurship Practice

Faculty of Economics

Contact Information
Phone: +82-62-530-1540, 1560
Fax: +82-62-530-1559
E-mail: eco@jnu.ac.kr
URL: http://eco.jnu.ac.kr

Faculty of Economics

The learning goal of the Faculty of Economics is to grow economic-minded specialists who are able to solve a diverse range of economic problems with professional knowledge. This goal is being achieved through the educational strategies of the faculty:

- Problem-solving focused: fostering professional with economic mind and practical capabilities
- Market-community balanced: developing basic grounding in liberty, truth, and contribution to community and society
- Communicative skills: enhancing flexibility of educational programs to meet the demands of society and students
- Economics: To place great value on practical applications of economic theories and to strive to provide a market economy-oriented education. The instructional focus is on educating students to understand principles of economic activities forming the foundation of society, and learn various economics theories and applications how to tackle real-life economic problems
- The Regional Development: To help students gain an understanding of economic theories and their implications for urban planning, regional development, and the environment. The track educates students to build an understanding of modern methods of urban planning that will reduce the gap among different cities and regions, producing regional development experts with thorough theoretical and practical knowledge. Urban studies provides students with theories and techniques for urban planning and real estate development, while the Regional studies provides students with tools and understanding to solve various regional problems such as environmental, traffic, housing, logistics, etc.

Professors

- Jae-Woon Koo, Ph.D.
  [Professor, Macroeconomics, jwkoo@jnu.ac.kr]
- See-Won Kim, Ph.D.
  [Professor, Macroeconomics, seekim@jnu.ac.kr]
- Soo-hyon Kim
  [Assistant Professor, Macroeconomics, soohyon.kim@jnu.ac.kr]
- Jae-Ho Kim, Ph.D.
  [Professor, Economic History, jhokim@jnu.ac.kr]
- Hyun-Ho Kim, Ph.D.
  [Professor, Industrial Organization, hyunkim@jnu.ac.kr]
- Ju-Mong Na, Ph.D.
  [Professor, Urban and Regional Economics,

najumong@jnu.ac.kr]
- Kyung-Suk Park, Ph.D.
  [Professor, International Trade, kspark@jnu.ac.kr]
- Jeong-Hwan Bae, Ph.D.
  [Professor, Environmental and Resource Economics, jhbae@jnu.ac.kr]
- Il-Won Seo, Ph.D.
  [Assistant Professor, Urban Development, veny.seo@jnu.ac.kr]
- Woo-Jin Shin, Ph.D.
  [Professor, Urban Economics & Real Estate, sayurban@jnu.ac.kr]
- Wiroy Shin, Ph.D.
  [Professor, Industrial Organization, wiroyshin@jnu.ac.kr]
- Sung-Joo Yoon, Ph.D.
  [Assistant Professor, Public Economics, sjyoon2022@jnu.ac.kr]
- Sang-Ho Lee, Ph.D.
  [Professor, Industrial Organization, sangho@jnu.ac.kr]
- Chan-Young Lee, Ph.D.
  [Assistant Professor, Labor Economics, chanyounglee@jnu.ac.kr]
- Hyun-Joon Lim, Ph.D.
  [Assistant Professor, International Economics, limhj1@jnu.ac.kr]
- Woo-Young Jeon, Ph.D.
  [Associate Professor, Energy Economics, wyjeon@jnu.ac.kr]
- Yoon-Seok Choi, Ph.D.
  [Associate Professor, International Economics, yoonchoi3@jnu.ac.kr]

■ Degree Requirements

Students are required to earn more than 130 credits. Among the 130 credits, students must earn at least 39 credits from Economics courses. If students take more than 39 credits from other major courses, they will have earned a joint degree (double major). Students who earn at least 21 credits from other major courses will have earned a minor. Students who earn the minimum major credit requirements (39) by 21 credits will have earned an intensive major.

■ What Do You Study?

▮ Required

Principles of economics 1
Principles of economics 2
Microeconomic Theory
Macroeconomic Theory

▮ Electives

Economic Statistics
Mathematical Analysis for Economics
Economic History
Market and Economic Regulation
Game Theory
Korean Economic History
International Trade Theory
Business Economics
Labor Economics
Industrial Organization
Money and Banking
Econometrics
Resource and Environmental Economics
History of Economic Theory
Finance and Banking Economics
Digital Economics
International Finance
Public Economics
Economic Development Theory
Economics of Insurance

Financial Market Analysis
International Economic Policy
History of Economic Thought
Law and Economics
Theory of Political Economy
International Commerce
International Political Economy
Special Issues in Economics
Economics Seminar
Cultural Economics
East Asian Economy
Economics of Human Resources
Introduction to Regional Development
Introduction to Real Estate Science
Regional Economics
Transportation Economics
Introduction to Urban Studies
Principles of Economics 1
Principles of Economics 2
Urban Planning
Regional Community Development
Social Research Methods
Planning Law
Real Estate Mathematics
Urban Economics
Introduction to Urban Development
Principles of Real Estate Development
Microeconomic Theory
Macroeconomic Theory
National and Regional Planning
Seminar in City and Regional Development
Overseas Regional Development
Resource and Environmental Economic
Overseas Regional Development
Urban History
Urban Analytical Techniques
City and Regional Logistics Management
Urban Management
Land Economics
Real Estate Market Analysis
Fundamentals of Real Estate Appraisal
Urban and Regional Regeneration
Public Economics
National Logistics Polices
International Development and Cooperation
Regional Economic Analysis

College of Engineering

Contact Information
Phone: +82-62-530-1618
Fax: +82-62-530-1942
E-mail: hkkim@jnu.ac.kr
URL: https://eng.jnu.ac.kr

School of Architecture

- Architecture & Urban Design
- Architectural Engineering

School of Chemical Engineering

- Chemical Engineering Materials
- Chemical Engineering Safety
- Chemical Process Engineering

School of Materials Science and Engineering

- Metallurgical Engineering
- Energy Nanomaterials
- Optoelectronic Materials

School of Mechanical Engineering

- Mechanical Engineering
- Mechanical & Automotive Engineering

School of Polymer Science and Engineering

- Polymer Engineering
- Fiber Science Engineering

Department of Biotechnology and Bioengineering

Department of Civil Engineering

Department of Electrical Engineering

Department of Energy and Resources Engineering

Department of Environment and Energy Engineering

Department of Industrial Engineering

Department of Computer Engineering

Department of Electronic Engineering

Department of Software Engineering

School of Architecture

Contact Information
Phone: +82-62-530-1630, 1957
Fax: +82-62-530-1639
E-mail: bylee@jnu.ac.kr
URL: http://archi.jnu.ac.kr

What is Architecture?

Architecture is a profession where technology, ecology, philosophy, art, and science combine to solve the problems of the building environment.

The buildings we live and work in shape our experiences, our memories, and the way we view the world. Homes, office buildings, opera houses, art galleries, schools, and factories are all designed by architects. It is the role of the architect to analyze a client's needs and to design a building which fulfills those needs. The architect then documents the design and manages the construction process. The architectural engineer develops new technologies and materials to construct buildings.

School of Architecture at Chonnam National University

Emphasizing the awareness of social and cultural contexts that underpin the architectural practice, encouraging a comprehensive and creative thinking ability among students, and researching the conditions of the environment of human dwelling, the School of Architecture remains committed to educating architects who can contribute to social progress and welfare.

Founded in 1952, the School of Architecture continues to make efforts to be a core architectural institute leading regional academic research and quality education open to the community.

In 2002, the Department of Architecture was reorganized into the School of Architecture with a five-year Bachelor of Architecture program and a four-year Bachelor of Architectural Engineering program. With a common curriculum in the first semester of studies, students can select and advance to one of the two programs in their second semester.

To achieve this goal, the School of Architecture provides an opportunity for students to understand the methods of creating buildings and architectural environments through design and experiments. The objective is to develop creative, scientific, and future-oriented architect engineers with a professional and comprehensive overview in order to contribute to the creation of architecture culture and academic development of Korea.

In addition, the nationally funded Bio-housing Institute is both designing and researching various aspects of environmentally-friendly architecture based on ecology, health, and sustainability. The goal of the Institute is to develop models of bio-housing through the integration of traditional materials and high technology, and to educate professionals who are equipped with original future technologies and expertise.

Undergraduate and graduate students of the School of Architecture are eligible for various scholarships and funding for overseas training.

▮ Architecture & Urban Design Major

The Architecture & Urban Major provides education with the recognition that architecture is not only to provide places in which human beings live and aesthetic structures which gives pleasure but also to become a public device where individuals and society, as a whole, can gather and interact. On such recognition the program has set to realize architectural and urban products that secure human dignity, fulfill social responsibility and pursue aesthetic beauty. Therefore, the goals of the Architecture & Urban major is to cultivate creative and internationalized professional architects and urban designers who understand socio-cultural interconnections through a competitive curriculum including lectures, design studios, and an internship for developing students' architectural and urban professional skills in a comprehensive manner.

▮ Architectural Engineering Major

Architectural Engineering helps students fulfill their roles as competent professionals who can design, construct, and manage safe and rational buildings and structures after graduation.

The Architectural Engineering Major intends to develop competitive talents in architectural environments at home and abroad. It pursues realistic architecture by studying engineering applications with a focus on curricula such as Architectural Construction, Architectural Structure, and Architectural Environment and Equipment.

■ Professors

Architecture & Urban Design Major

- Se-Gyu Oh, Ph.D.
  [Professor, Architectural and Housing Design, Sustainable Green Housing Design, Architectural Design and Renovation, Urban Renewal Design, oskar@jnu.ac.kr]
- Hyo-Won Lee, Ph.D.
  [Professor, Architectural Design, Design Theory, Planning and Research of Facility for the Aged, Louis I. Kahn, leehw@jnu.ac.kr]
- Uoo-Sang Yoo, Ph.D.
  [Professor, Architectural Design and Evaluation, usyoo@jnu.ac.kr]
- Seung-Hoon Han, Ph.D.
  [Professor, Architectural Planning & Design, hshoon@jnu.ac.kr]
- Min-Seok Lee, Dr.-Ing
  [Professor, Urban Design Planning, leeminseok@jnu.ac.kr]
- Yunnam Jeong, Ph.D.
  [Assistant Professor, Architectural Planning, ynj@jnu.ac.kr]
- Kyungsik Kim, M.Arch.
  [Assistant Professor, Architectural Design and Planning, kimks@jnu.ac.kr]
- Sanghun Joo, Ph.D.
  [Assistant Professor, Architectural history of Korea and Asia, Policy and Theory of Cultural Heritage, joosh924@jnu.ac.kr]

Architectural Engineering Major

- Jin-Kyu Song, Ph.D.
  [Professor, Reinforced Concrete, Performance Evaluation, Loess Reinforced Concrete, jgsong@jnu.ac.kr]
- Jae-Seung Hwang, Ph.D.
  [Professor, Structural Performance Enhancement against Wind and Seismic Loads, Sustainable Control Device, Structural Control, jshwang@jnu.ac.kr]
- Seong-Seok Go, Ph.D.
  [Professor, Construction Management, Engineering, Safety, Material, ssgo@jnu.ac.kr]
- Bang Yeon Lee, Ph.D.
  [Professor, Advanced Building Materials, bylee@jnu.ac.kr]
- Jong Kwan Ryu, Ph.D.
  [Professor, Architectural Environment & Acoustics, jkryu@jnu.ac.kr]
- Kanghyeok Yang, Ph.D.
  [Associate Professor, Construction Informatics, kyang@jnu.ac.kr]
- Wonjun Choi, Ph.D.
  [Assistant Professor, Building energy systems, Bayesian modeling, Predictive system control, Exergy analysis, wonjun.choi@jnu.ac.kr]

■ Degree Requirements

Architecture & Urban Design Major

Architecture & Urban Design students are required to earn 160 credits to graduate, taking an average of 18 credits per semester. The program is based on the Bachelor of Architecture program which normally takes 5 years to complete.

Architectural Engineering Major

Architectural Engineering students are required to earn 140 credits to graduate, taking an average of 18 credits per semester. The program is based on the Bachelor of Engineering Program which normally takes 4 years to complete.

■ What Do You Study?

Architecture & Urban Design Major

Architecture Environmental Control System Design
Interior Planning
Reinforced Concrete Structure Design 1
Steel Structure Design 1
Asian Architecture
Region, Culture and Space
Advanced Course in Computer-Aided Architectural Design
Introduction to Urban Planning
Practical English
Contents of Urban Space
Theory of Contemporary Architecture
Architectural Estimation and Supervision
Regional Industry and Architecture
History of Western Architecture
Introduction to Building Structure
History of Korean Architecture
History of Modern Architecture
Architectural Mechanical System
Architectural Planning
Architectural Structure System
Practical Internship
Environmental Technology

Housing and Culture
Fundamentals of Computer-Aided Architectural Design
Environment-Friendly Architecture
Building Materials
Building and City Codes
Site Planning
Urban Planning and Rehabilitation
Construction Management
Professional Practice
Integrated Architectural Planning
Architectural Space and Society
Structural Mechanics
Architectural Renewal Planning
Architectural Design Theory and Presentation
Architectural Design Methodology
Basic Design Studio 1
Basic Design Studio 2
Architecture Design Studio 1
Architecture Design Studio 2
Architecture Design Studio 3
Architecture Design Studio 4
Architecture Design Studio 5
Architecture and Urban Design Studio
Research and Advanced Design Studio
Industry Cooperative Design Studio
Digital Architecture
Architecture, City and Culture
Urban Design and Landscape Architecture
Smart Building
Smart City

Architectural Engineering Major

Building Structure
Computer Science Foundation
Computer Science Application
Building Materials Experiment
System of Building Structure
Architectural Equipment Application
Architecture Environmental Technology Experiment
Architectural Estimate
Architectural Acoustics
Soil & foundation engineering
Building Code & Regulation
Architectural Management
Architectural Capstone Design 2
Architectural Engineering Design
Creative Architectural Engineering Design
Mechanics of Materials
Engineering Mathematics 2
Statics
Building Structural Mechanics 1
Architecture Environmental Technology
Building Materials
Architecture Environmental Control System Design
Construction Technology
Structure Dynamics
Architectural Equipment
Reinforced Concrete Structure Design 1
Steel Structure Design 1
Practical Internship
Architectural Capstone Design 1
Housing and Culture
Construction Method & Technique Design
Engineering Mathematics 1
Introduction to Creative Design
Building Information Modeling System
Smart Building Technology and System
Basic Design Studio 1
Building Energy Simulation
Zero Energy Building Technologies

■ Careers

There is a diverse and exciting range of career opportunities for architecture graduates. As well as a career in private architectural practice, career opportunities include Architectural Design, Interior Design, Architectural and Urban Planning, Construction, Structural/Mechanical Engineering, Public Authorities, Project management, Property Development, Research, Restoration, and Conservation.

School of Chemical Engineering

Contact Information
Phone: +82-62-530-1850
Fax: +82-62-530-1909
E-mail: chko@jnu.ac.kr
URL: http://ace.jnu.ac.kr

What is Chemical Engineering?

The goal of the School of Chemical Engineering (SCE) is to promote the development of engineering education by improving standards and guidelines of educational programs for engineering colleges and related education, thereby performing certification and consultation, and ultimately producing competent engineers.

School of Chemical Engineering

The SCE was established in March 2002 by merging the existing faculty of Chemical Engineering and faculty of Applied Chemistry. The newly restructured School of Chemical Engineering comprises the following three departments to foster understanding that is necessary for the development of engineering: chemical engineering materials, chemical engineering safety, and chemical process engineering.

Professors

- Taek-Hyeon Kim, Ph.D.
  [Professor, Design and Synthesis of Drug, Organic Synthesis, thkim@jnu.ac.kr]
- Jong-Ho Kim, Ph.D.
  [Professor, Catalytic Chemistry, jonghkim@jnu.ac.kr]
- Moo-Sung Lee, Ph.D.
  [Professor, Polymer/Hybrid Materials, moosung@jnu.ac.kr]
- Hyung Jin Kim, Ph.D.
  [Professor, Organic Synthesis, hyungkim@jnu.ac.kr]
- Do-Heyoung Kim, Ph.D.
  [Professor, Metal Organic Chemical Vapor, kdhh@jnu.ac.kr]
- Jong-Il Rhee, Ph.D.
  [Professor, Development for Optic Biosensors and Biochips, jirhee@jnu.ac.kr]
- Young-Dae Kim, Ph.D.
  [Professor, Rheology, Conduction Polymer, youngdae@jnu.ac.kr]
- Eun-Mi Han, Ph.D.
  [Professor, Opto-electronic Materials, emhan@jnu.ac.kr]
- Kwang Ha, Ph.D.
  [Professor, Organometallic Chemistry, hakwang@jnu.ac.kr]
- Sung-June Cho, Ph.D.
  [Professor, Production and Storage of Methane and Hydrogen, sjcho@jnu.ac.kr]
- Hyun-Yong Lee, Ph.D.
  [Professor, Multilayer structure transparent electrodes, hyleee@jnu.ac.kr]
- Yun-Sung Lee, Ph.D.
  [Professor, Lithium Secondary Battery,

leeys@jnu.ac.kr]
- Jong-Hoon Han, Ph.D.
  [Professor, Nano Carbon Convergence Materials, jhhan@jnu.ac.kr]
- Jun-Seok Ha, Ph.D.
  [Professor, Nano Photonic Devices, jsha@jnu.ac.kr]
- Chang-Kook Hong, Ph.D.
  [Professor, Solar Cells, Energy Engineering, Polymer Materials, hongck@jnu.ac.kr]
- Chang-Hyun Ko, Ph.D.
  [Professor, Synthesis and Catalytic Application of Inorganic Materials, chko@jnu.ac.kr]
- Jeong-Woo Yun, Ph.D.
  [Professor, Fuel Cell, Capacitor, Fuel reforming, jwyun@jnu.ac.kr]
- Sang-Hyun Lee, Ph.D.
  [Professor, Semiconductor & carbon nanomaterials, leeshyun@jnu.ac.kr]
- Yong-Il Park, Ph.D.
  [Associate Professor, Nano Materials, ypark@jnu.ac.kr]
- Young-Si Jun, Ph.D.
  [Associate Professor, Photocatalysis, Polymer semiconductors, ysjun@jnu.ac.kr]
- Byung-Chol Ma, Ph.D.
  [Associate Professor, Process Safety Design, Process Risk Analysis, anjeon@jnu.ac.kr]
- Dae-Sung Song, Ph.D.
  [Associate Professor, Process Design, Process Optimization, Process Safety, dssong@jnu.ac.kr]
- Ji-Eun Lee, Ph.D.
  [Assistant Professor, Nanomaterials, jelee@jnu.ac.kr]
- Bo-Ram Gu, Ph.D.
  [Assistant Professor, Process Systems Engineering/Computational Fluid Dynamics, boram.gu@jnu.ac.kr]
- Ki-Ho Park, Ph.D.
  [Associate Professor, Chemical Process, Process design, Modeling, Optimization, kiho138@jnu.ac.kr]
- Donghun Kim, Ph.D.
  [Assistant Professor, Functional Nanostructured Materials, donghun99@jnu.ac.kr]
- Daehoon Han, Ph.D.
  [Assistant Professor, 3D/4D Printing, Smart Materials, Bioinspired Engineering, dhhan@jnu.ac.kr]
- Sangchul Roh, Ph.D.
  [Assistant Professor, Soft Matter, Colloid and Interface Science, scroh@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits, with 84 credits from Chemical Engineering courses, and 40 credits from general courses.

Students in the ABEEK Program are required to earn 12 credits from general courses, 32 credits from MSC courses, and 75 credits from engineering topics courses.

■ What Do You Study?

General Courses

▮ Core Courses

Writing for Self-reflection and communication
Career Plan and Self Understanding
Mathematics 1
General Chemistry 1
College Physics 1
Chemistry Laboratory 1
Computer for Real Life
Mathematics 2

General Chemistry 2
College Physics 2
Chemistry Laboratory 2

Chemical Engineering Materials Major Courses

▮ Core Courses

Polymer Chemistry
Engineering Mathematics 1
Chemical Process Calculation 1
Instrumental Analytical Methods
Physical Chemistry 1
Organic Chemistry 1
Transfer Operations 1
Materials Science
Electro Chemistry
Introduction to Creative Design
Basic Experiment of Chemical Engineering Lab 1
Basic Experiment of Chemical Engineering Lab 2
Design of Chemical Engineering and Materials
Experiments for Chemical Materials
Chemical Engineering Lab.
Chemical Engineering Capstone Design

▮ Electives

MATLAB Programming
Chemistry of Interface
Introduction to Polymer Processing
Polymer Materials
Industrial Analytical Chemistry
Engineering Mathematics 2
Chemical Process Calculation 2
Chemical Process Thermodynamics
Chemical Process risk assessment
Chemical Process Control
Fundamentals of Photonics
Fuctional Polymers
Display Engineering
Inorganic Materials
Inorganic Chemistry
Physical Chemistry 2
Semiconductor·Photonic Devices Engineering
Semiconductor Device Fabrication
Reaction Engineering
Separation Process
Separation And Purification Processes
Nonuniform Reaction Engineering
Engineering Seminar 1
Engineering Seminar 2
Biochemical Engineering
Petrochemical Industry
Combustion and Explosion Protection Engineering
Organic Industrial Chemistry
Organic Reaction Mechanism
Organic Synthetic
Organic Chemistry 2
Medicinal Chemistry
Transfer Operations 2
Catalyst Chemistry
Carbon Materials Engineering
Plant Safety Facility
Fundamentals & Design to Chemical process
Numerical Analysis in Chemical Engineering
Chemical Safety Engineering
Chemical Engineering Termodynamics
Chemical Engineering Quality Control
Field Practice for Chemical Engineering 1
Field Practice for Chemical Engineering 2
Environmental Chemistry

Chemical Enginieering Safety Major Courses

▮ Core Courses

Introduction to Creative Design
Transfer Operations 1
Chemical Process Calculation 1
Physical Chemistry 1
Organic Chemistry 1
Engineering Mathematics 1
Basic Experiment of Chemical Engineering Lab 1
Basic Experiment of Chemical Engineering Lab 2
Chemical Engineering Lab
Chemical Safety Experiment
Chemical Engineering of Chemicals

Combustion and Explosion Protection Engineering
Chemical Precess risk assessment
Plant Safety Facility
Chemical Process Design
Chemical Engineering Capstone Design

▮ Electives

MATLAB Programming
Transfer Operations 2
Chemical Process Calculation 2
Organic Chemistry 2
Physical Chemistry 2
Engineering Mathematics 2
Basic Design of Chemical Engineering
Inorganic Chemistry
Materials Science
Chemical Engineering Thermodynamics
Reaction Engineering
Separation Processes
Chemical Process Control
Petrochemical Industry
Nonuniform Reaction Engineering
Separation Purification Processes
Chemical Precess Control System Analysis
Chemical Precess Thermodynamics
Numerical Analysis in Chemical Engineering
Electrochemistry
Polymer Chemistry
Energy Engineering
Engineering Economy
Patent based Research and Development
Environmental Engineering
Instrumental Analytical Methods
Chemical Engineering Quality Control
Industrial Safety Regulations
Engineering Seminar 1
Engineering Seminar 2
Technology Management
Chemical Equipment and Facilities
Energy Storage System Engineering
Measurement Sensor Engineering
Field Practice for Chemical Engineering 1
Field Practice for Chemical Engineering 2

Chemical Process Engineering Major Courses

▮ Core Courses

Introduction to Creative Design
Transfer Operations 1
Chemical Process Calculation 1
Physical Chemistry 1
Organic Chemistry 1
Engineering Mathematics 1
Basic Experiment of Chemical Engineering Lab 1
Basic Experiment of Chemical Engineering Lab 2
Nonuniform Reaction Engineering
Separation and Purification Processes
Chemical Process Thermodynamics
Chemical Process Control System Analysis
Numerical Analysis in Chemical Engineering
Chemical Engineering Lab
Chemical Engineering Intensive Lab
Chemical Process Design
Chemical Engineering Capstone Design

▮ Electives

MATLAB Programming
Transfer Operations 2
Chemical Process Calculation 2
Organic Chemistry 2
Physical Chemistry 2
Engineering Mathematics 2
Basic Design of Chemical Engineering
Inorganic Chemistry
Materials Science
Reaction Engineering
Separation Processes
Chemical Engineering Thermodynamics
Chemical Process Control
Organic Composite Materials
Petrochemical Industry
Energy Engineering
Electrochemistry
Inorganic Materials
Measurement Sensor Engineering

Combustion and Explosion Protection Engineering
Polymer Chemistry
Organic Reaction Mechanism
Particle Engineering
Transfer Phenomena
Chemical Safety Engineering
Computer Aided Design of Chemical Engineering
Catalyst Engineering
Engineering Seminar 1
Engineering Seminar 2
Green Chemistry Technology
Energy Storage System Engineering
Chemical Equipments and Facilities
Environmental Engineering
Instrumental Analytical Methods
Quality Control
Technology Management
Engineering Economy
Chemical Technology and Patent
Chemical Process risk assessment
Plant Safety Facility
Chemical Engineering Quality Control
Field Practice for Chemical Engineering 1
Field Practice for Chemical Engineering 2

■ Careers

Graduates obtain employment in chemical plants (oil refinery, petrochemical, fertilizer, synthetic resin, oil and fat, food industry, inorganic chemistry, explosives, cement, glass, dye, rubber, paint, pulp and paper, metal, and smelting) in all parts of the country, including the Yeocheon and Ulsan districts, thermo-electrical and nuclear power plants, steel mills, photoelectron fields (semiconductor component/equipment, LCD, and photo component manufacturing), textile-related fields, sales fields for trading companies, pharmaceutical fields, cosmetics fields, polymer-related fields, research institutes, and civil service.

School of Materials Science and Engineering

Contact Information
Phone: +82-62-530-1700, 1710, 1711
Fax: +82-62-530-1699
E-mail: kye7@jnu.ac.kr
URL: http://mse.jnu.ac.kr/

What is Materials Science and Engineering?

Materials Science and Engineering (MSE) is an interdisciplinary field that deals with the discovery and design of new or high-performance materials that constitute modern civilization and industrial developments. The field involves studying materials through the materials paradigm: synthesis, structure, properties, and performance. It incorporates elements of physics and chemistry and is at the forefront of nanoscience and nanotechnology research. The mechanical, electrical, optoelectronic, and electrochemical properties of metals and ceramic materials are utilized for transportation machinery, semiconductor devices, energy and environmental devices such as batteries, fuel cells, solar cells, and medical applications.

School of Materials Science and Engineering

In order to keep up with the worldwide trend and make the most of its interdisciplinary nature, the Department of Metallurgical Engineering and the Department of Ceramic Engineering were integrated in 1999 into the School of Materials Science and Engineering (SMSE) with two majors. In 2002, in response to regional and national industrial demands, the Optoelectronic Materials major was additionally established. Currently, SMSE consists of approximately 360 undergraduate students, 80 graduate students, and 16 faculty members. Since 2007, SMSE has implemented the ABEEK curriculum, and the Materials Science and Engineering Program was officially accredited in 2014.

Students are encouraged to aim for comprehensive knowledge and understanding of Materials Science and Engineering in general until their fourth year, when they choose a major to focus on. For the last decade or so, SMSE has conducted major large-scale education programs such as NURI, LINC, and CK-1. These programs provide undergraduates with scholarships and opportunities for language and engineering training courses (such as 6 Sigma, TRIZ, etc.), industrial internships, and domestic and international excursions.

Undergraduate students also greatly benefit from the research experience provided by the laboratories operated by the faculty members. The faculty's research activities, indicated by eminent national projects such as WCU, BRL, Get-Future, and BK21+, as well as numerous industrial projects and collaborations, are further supported by the continued studies of motivated undergraduate students in the graduate course.

■ Professors

- Ho-Sung Kim, symmetry@jnu.ac.kr
  [Crystal Structure Analysis & Crystal Growth]
- Kwangmin Lee, kmlee@jnu.ac.kr
  [Nano- & Bio-materials]
- Youngman Kim, kimy@jnu.ac.kr
  [Mechanical & Thermal Characterizations of Thin Films]
- Sung-Kil Hong, skhong@jnu.ac.kr
  [Light Metals, Mold & Automotive Parts Materials]
- Jin-Hyeok Kim, jinhyeok@jnu.ac.kr
  [Photonic Electronic Thin Film Growth & Characterization]
- Jaekook Kim, jaekook@jnu.ac.kr
  [Design, Synthesis, Characterization of Nano Energy Materials]
- June Key Lee, junekey@jnu.ac.kr
  [Semiconductor Process Design]
- Jong-Sook Lee, jongsook@jnu.ac.kr
  [Electroceramics]
- Sun-Ju Song, song@jnu.ac.kr
  [Ionics, Energy Materials]
- Chan-Jin Park, parkcj@jnu.ac.kr
  [Corrosion & Energy Materials, Materials Electrochemistry]
- FISHER JOHN GERARD, johnfisher@jnu.ac.kr
  [Green Energy Materials]
- Jaeyeong Heo, jheo@jnu.ac.kr
  [Nanodevices & Materials for Energy]
- Hoonsung Cho, cho.hoonsung@jnu.ac.kr
  [Biomaterials]
- Yeongho Kim, ykim2023@jnu.ac.kr
  [Next-generation Semiconductor]
- Tae-Hoon Kim, thk@jnu.ac.kr
  [Multiscale Microstructure Analysis]
- Kootak Hong, kthong@jnu.ac.kr
  [Advanced Electronic Materials and Devices]

■ Degree Requirements

Students are required to earn at least 140 credit hours (73 major required courses, 45 general courses and 22 elective courses), which normally takes four years of full-time study. Students have the option to double major or to earn additional submajor within Materials Science and Engineering or in other programs.

■ What Do You Study?

Instrumental Analytical Methods
Engineering Mathematics
Introduction to Engineering Design
Materials Science Seminar 1/2/3/4
Introduction to Materials Science and Engineering 1/2
Special Lecture on Industrial Topics 1/2
Engineering Internship
Thermodynamics in Materials
Crystal Structures and Defects
Materials Engineering Project 1/2/3
Electrical and Magnetic Properties of Materials
Mechanical Properties of Materials
Electrical Engineering for Materials Engineers
X-ray and Electron Diffraction
Taguchi Method
Capstone Design 1/2
Design and Machining
Physical Chemistry
Numerical Methods for Materials Science and Engineering
Nanocrystalline Materials and Biomaterials

Metallurgical Engineering Major

Mechanics of Materials

Ferrous Alloys
Metallography
Ferrous Production Metallurgy
Solidification Engineering
Nonferrous Materials
Metalworking
Corrosion and Oxidation
Materials Electrochemistry
Phase Transformation
Foundry Engineering
Materials Joining
3D Printing and Metal Powder Processing
Manufacturing Process of Light Metals

Energy Nanomaterials Major

Phase Equilibria
Diffusion and Crystal Defect
Electroceramics
Solid State Chemistry
Materials in Energy Applications
Theory and Phenomena of Sintering
Interfacial Engineering
Nano Composite Materials
Solid State Physics
Introduction to Organic Chemistry
Amorphous Energy Materials
Nanoceramics processing

Optoelectronic Materials Major

Electromagnetics
Quantum Mechanics
Optoelectronic Materials
Thin Film Process Engineering
Semiconductor Device Physics 1/2
Semiconductor Materials and Processing
Electronic Display Engineering
Optoelectronic Device Engineering
Optical Fiber Communications
Semiconductor Device Design
Sensor Materials Engineering
Optics

■ Careers

Graduates are currently playing major roles in various industrial fields of steel, automotive, semiconductor, display, optical communication, and energy storage devices. Many students study further in graduate courses and are trained for the research and development career path.

School of Mechanical Engineering

Contact Information
Phone: +82-62-530-1660, 1670
Fax: +82-62-530-1689
E-mail: A4860@jnu.ac.kr
URL: http://mech.jnu.ac.kr

■ What is Mechanical Engineering?

Mechanical engineering encompasses a broad spectrum of engineering that revolves around the conception, fabrication, installation, and operation of engines, machinery, and manufacturing processes. This field engages a multitude of applications, ranging from the fundamental principles of dynamics, control systems, thermodynamics, heat transfer, and fluid mechanics, to the resilience of materials, materials science, electronics, and mathematics. It stands as an innovative and comprehensive academic discipline, where scientific imagination is concretely realized through avenues like mechatronics, nano/micro system technology, IT-driven intelligent mechanical systems, thermo-fluid dynamics, and energy systems.

Technological progress within the realm of mechanical engineering entails methodical materialization of technology via the application of scientific principles and meticulous engineering designs. With its ever-evolving nature, mechanical engineering continues to pave the way for modern industrial expansion, forming the bedrock of the impending industrial landscape. At its core, mechanical engineers assume pivotal roles across traditional sectors such as automotive, aerospace, architecture, civil engineering, plant management, energy production, and domestic appliances. Moreover, their influence is destined to shape future technologies, spanning from smart mobility, robotics, semiconductors, and energy materials to displays, sensors, sustainable energy solutions, micro-fluidics, high-precision optics, multiscale composites, AI, and deep learning.

■ School of Mechanical Engineering

The inception of the School of Mechanical Engineering at JNU dates back to 1970. Currently, the school boasts a faculty contingent of 22 members, catering to the academic journey of 600 undergraduate students and 80 graduate students. Our primary objectives encompass delivering a stellar education to both our undergraduate and graduate cohorts, alongside pioneering research endeavors in the realm of mechanical engineering.

The School of Mechanical Engineering has achieved noteworthy success through various government-backed initiatives, including the National Project to Foster Engineering Colleges ('94~'98), Brain Korea 21 (BK21, '99~'05), New University for Regional Innovation (NURI, '04~'09), post-BK21 ('06~'13), and CK-1 ('14~'19) programs. In 2013, the school was once again selected for the BK21+ project ('13~'20). These endeavors have consistently aimed at attracting exceptional new students, offering

substantial scholarships, facilitating short-term overseas language training and diverse educational activities, securing accomplished faculty members, nurturing collaboration with local industries, and enhancing educational facilities and laboratories.

Starting from 2023, the school has been designated as the Center for Education & Innovation in Future Vehicle Technology Convergence. By integrating ICT-based eco-friendly car characterization education, we are actively fostering regional strategic industry leaders and global creative talents. Presently, we are committed to furnishing world-class educational and research environments, state-of-the-art facilities, and scholarships through significant academic and research funds such as BK21-Four, Basic Research Lab (BRL), and Regional-Leading Research Center (RLRC).

The School of Mechanical Engineering is dedicated to ensuring that all students align with the swiftly evolving educational landscape, both domestically and internationally. Alongside this commitment, we offer inventive research prospects vital for pivotal industries and research establishments, aimed at preparing students for meaningful contributions within relevant sectors. A fundamental curriculum is mandatory for all students, expected to be completed by the initial semester of their junior year. Subsequently, students can opt for a major in either mechanical engineering or mechanical & automotive engineering. Moreover, it is worth highlighting that the School of Mechanical Engineering has recently garnered recognition from the government as a pivotal department in the advanced arena. Commencing from 2024, there will be an augmentation in the undergraduate admission capacity to accommodate over 130 students. This expansion is poised to facilitate the cultivation of an increased number of skilled professionals within the expansive realm of mechanical engineering.

Mechanical Engineering Major

The mechanical engineering major provides a foundational array of courses encompassing key areas within mechanical engineering. These include fundamental subjects like fluid dynamics, materials science, solid mechanics, controls, manufacturing processes, thermodynamics, and heat transfer. Additionally, students will engage in advanced computer courses focused on design principles and applications.

Mechanical & Automotive Engineering Major

The Mechanical & Automotive Engineering major delivers specialized expertise in the cutting-edge technological advancements within the realm of automotive applications of mechanical engineering. This encompasses a comprehensive understanding of internal combustion engines, vehicle dynamics and aerodynamics, utilization of industry-standard CAD tools, and exploration of renewable energy sources and alternative fuels.

■ Professors

• Ki-Ju Kang, Ph.D.
[Professor, Mechanical Metamaterials, jkang@jnu.ac.kr]

• Bo-Seon Kang, Ph.D.

[Professor, Sprays, Optical Measurements, Fluid Mechanics, bskang@jnu.ac.kr]

- Hyun Wook Kang, Ph.D.
  [Professor, AI based thermal-fluidic Engineering, Microfluidics, Nano Engineering, kanghw@jnu.ac.kr]
- Seong-Yong Ko, Ph.D.
  [Professor, Medical robots, Intelligent robots, sko@jnu.ac.kr]
- Woohyun Kim, Ph.D.
  [Associate Professor, Modeling, analysis and control of thermal systems, whkim@jnu.ac.kr]
- Chang-Sei Kim, Ph.D.
  [Associate Professor, Dynamics and Control, Biomedical System, ckim@jnu.ac.kr]
- Chang-bae Moon, Ph.D.
  [Associate Professor, Mobile Robot / Autonomous Vehicle, cbmoon@jnu.ac.kr]
- Gyuhae Park, Ph.D.
  [Professor, Noise/Vibration, Structural Health Monitoring, image processing, gpark@jnu.ac.kr]
- Jinsoo Park, Ph.D.
  [Assistant Professor, Microfluidics / Flow Visualization, jinsoopark@jnu.ac.kr]
- Seoung-Yun Seol, Ph.D.
  [Professor, Super Conductors, syseol@jnu.ac.kr]
- Young-Soo Yang, Ph.D.
  [Professor, Analysis of Welded Structures, ysyang@jnu.ac.kr]
- Dong-Weon Lee, Ph.D.
  [Professor, MEMS and NEMS, mems@jnu.ac.kr]
- Bong-Kee Lee, Ph.D.
  [Professor, Micro/Nano-molding, Mold design, b.lee@jnu.ac.kr]
- Wonoh Lee, Ph.D.
  [Professor, Composite Materials / Energy Materials, wonohlee@jnu.ac.kr]
- In-Su Jeon, Ph.D.
  [Professor, Mechanics of Materials, Soft materials, i_jeon@jnu.ac.kr]
- Seunghun Jung, Ph.D.
  [Professor, Electrochemical energy system, hybrid vehicles, shjung@jnu.ac.kr]
- Byung-Chul Choi, Ph.D.
  [Professor, Combustion Engineering, Internal Combustion Engine, Technology for Emission After-treatment, bcchoi @jnu.ac.kr]
- Eunpyo Choi, Ph.D.
  [Associate Professor, Medical micro/nano robotics, eunpyochoi@jnu.ac.kr]
- Seunghwoi Han, Ph.D.
  [Assistant Professor, Laser engineering, nano optics, optical sensor, shan@jnu.ac.kr]
- Ki Joon Heo, Ph.D.
  [Assistant Professor, Bioaerosol, Antimicrobial surface, Filtration, k.heo@jnu.ac.kr]
- Soonwook Hong, Ph.D.
  [Assistant Professor, Thin-film Fuel Cell, Hydrogen Production, Nano-scale Catalysts, shong@jnu.ac.kr]
- Ayoung Hong, Ph.D.
  [Assistant Professor, Autonomous Intelligent Robotics, ahong@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are meticulously crafted to equip students with the essential comprehension and skills necessary to confront the complexities of contemporary technological demands within the realm of mechanical engineering. A minimum of 140 credit hours is mandatory for completion (comprising 80 from Department courses and 18 from elective courses), typically spanning a four-year duration of full-time study. Furthermore, students have the opportunity to pursue double majors or minors, facilitating a broader academic horizon and enriching their educational journey.

■ What Do You Study?

Advanced Mechanical Engineering
AI based Thermofluidic System
Air Conditioning and Refrigeration
Applied Fluid Mechanics
Applied Heat Transfer
Applied Robotic Systems
Applied Solid Mechanics
Applied Thermodynamics
CAD/CAM with Practice
Composite Materials in Mechanical Engineering
Compressible Flow
Control Engineering
Creative Engineering Design
Dynamics
Electric vehicles
Environmental Mechanical Engineering
Engineering Mathematics 1
Engineering Mathematics 2
Fluid Machinery
Fluid Mechanics
Fuel and Combustion Engineering
Fuel Cell Vehicles
Heat Transfer
Intelligent Vehicle
Internal Combustion Engine
Internship 1
Internship 2
Introduction of Electricity and Electronics
Introduction to Automotive Engineering
Introduction to Engineering Design
Introduction to MEMS(micro electro mechanical systems)
Kinematics of Mechanisms
Machine Element Design
Machine Learning for Mechanical Engineering
Manufacturing Processes with Practice
Measurement Engineering
Mechanical drawing
Mechanical Engineering Capstone Design 1
Mechanical Engineering Capstone Design 2
Mechanical Engineering Lab
Mechanical Engineering Seminar
Mechanical Materials
Mechanical System Design
Mechanical Vibrations
Mechatronics
Numerical Analysis
Optical Engineering
Propulsion Engineering
Reliability Engineering
Renewable Energy
Robot Engineering
Smart Manufacturing Engineering
Solid mechanics
Statics
System Dynamics and Signal Processing
Thermodynamics
Vehicle Dynamics and Control
Welding Engineering

■ Careers Options

Upon graduation, individuals are well-equipped to embark on diverse career paths encompassing fields such as engineering, electronics, the automobile industry, and construction firms. An alternate avenue is enrollment in a graduate program within the domain of mechanical engineering to further hone their expertise. Graduates possess the qualifications to assume specific roles such as technical public officials and government officers, leveraging their comprehensive understanding of mechanical engineering principles and applications to contribute effectively within governmental contexts.

School of Polymer Science and Engineering

Contact Information
Phone: +82-62-530-1770, 1870
Fax: +82-62-530-1779, 1879
E-mail: hjcho@jnu.ac.kr
URL: http://pf.jnu.ac.kr/eng

What is the School of Polymer Science and Engineering?

The primary goal of our department is to offer fundamental and cutting-edge academic and research programs. We provide educational programs with quality standards and guidelines and foster skillful polymer scientists and engineers.

School of Polymer Science and Engineering

Polymer Science and Engineering at Chonnam National University encompasses teaching and research and aims at developing scientists and engineers who can fill the need in industry, government, and academia. Our department consists of two majors: *Polymer Science and Engineering* and *Fiber Science and Engineering*.

Professors

- Yang-Il Huh, Ph.D.
  [Professor, Polymer Membranes, yihuh@jnu.ac.kr]
- Yoong Ahm Kim, Ph.D.
  [Professor, Nano Carbon Materials, yak@jnu.ac.kr]
- Jong-Jin Park, Ph.D.
  [Professor, Functional Polymer, Electronic Materials, jjpark@jnu.ac.kr]
- Hyeonseok Yoon, Ph.D.
  [Professor, Functional Nano Materials, hyoon@jnu.ac.kr]
- Mincheol Chang, Ph.D.
  [Professor, Polymer Semiconductor Materials & Devices, mcchang35@jnu.ac.kr]
- Hyungwoo Kim, Ph.D.
  [Professor, Polymer Synthesis, kimhw@jnu.ac.kr]
- Su-Mi Hur, Ph.D.
  [Associate Professor, Theory and Simulations for Soft Materials, shur@jnu.ac.kr]
- Doojin Lee, Ph.D.
  [Associate Professor, Smart Polymers Processing, dlee@jnu.ac.kr]
- Won Seok Chi, Ph.D.
  [Assistant Professor, Energy Material, wschi@jnu.ac.kr]
- Changhun Yun, Ph.D.
  [Assistant Professor, Electronic Polymer Materials, chyun2020@jnu.ac.kr]
- Yeongun Ko, Ph.D.
  [Assistant Professor, Polymer brushes, yeongunko@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits for graduation, which includes 72 credits from School of Polymer Science and Engineering and 42 credits from general courses.

Students in the ABEEK Program are required to earn 9 credits from general courses, 32 credits from MSC courses, and 63 credits from engineering topics courses, out of total 140 credits.

■ What Do You Study?

Polymer Engineering Major Courses

▮ Core Courses

Mathematics 1
Mathematics 2
General Chemistry 1
General Chemistry 2
General Physics 1
General Physics 2
Chemistry Laboratory 1
Chemistry Laboratory 2
Writing for Self-reflection and communication
Computer for Real Life
Career Plan and Self Understanding
Introduction to Engineering Design
MATLAB Programming and Practice
Engineering Mathematics 1
Engineering Mathematics 2
Organic Chemistry 1
Physical Chemistry 1
Basic Engineering Lab.1
Basic Engineering Lab 2
Polymer Chemistry 1
Thermodynamics
Fluid Mechanics
Polymer Processing 1
Properties of Polymer 1
Engineering Lab. 1
Engineering Lab. 2
Separation Process

▮ Electives

Materials Science
Chemical Process Calculation 1
Energy Science and Technology
Organic Chemistry 2
Physical Chemistry 2
Chemical Process Calculation 2
Introduction to IT Convergence Engineering
Polymer Materials
Basic Design of Engineering
Polymer Chemistry 2
Instrumental Analytical Methods
Nano Surface Science
Functional Polymers
Reaction Engineering
Heat Transfer
Convergence Materials Testing
Computational Material Sience
Electronic Materials
Polymer Processing 2
Properties of Polymer 2
Polymeric Composite Materials
Rheology
Capstone Design 1
Capstone Design 2
Polymeric Nano-composites
Applied Engineering for Nano Materials
Biopolymer
Energy Materials
Electrochemistry

Fiber Science Engineering Major Courses

▮ Core Courses

Mathematics 1
Mathematics 2
General Chemistry 1
General Chemistry 2

General Physics 1
General Physics 2
Chemistry Laboratory 1
Chemistry Laboratory 2
Writing for Self-reflection and communication
Computer for Real Life
Career Plan and Self Understanding
Introduction to Engineering Design
MATLAB Programming and Practice
Engineering Mathematics 1
Engineering Mathematics 2
Organic Chemistry 1
Physical Chemistry 1
Basic Engineering Lab.1
Basic Engineering Lab 2
Polymer Chemistry 1
Unit Operation
Fiber Physics
Engineering Lab. 1
Engineering Lab. 2
Fiber Function Design
Synthetic Fibers
Fiber Assembly Engineering

Electives

Materials Science
Energy Science and Technology
Physical Chemistry 2
Organic Chemistry 2
Introduction to IT Convergence Engineering
Polymer Materials
Polymer Chemistry 2
Basic Design of Engineering
Instrumental Analytical Methods
Nano Surface Science
Color Science
Convergence Materials Testing
Computational Material Sience
Electronic Materials
Polymeric Composite Materials
Functional Fiber
Rheology
Capstone Design 1
Capstone Design 2
Property Design of Carbon Fibers
Polymeric nano-composites
Applied Engineering for Nano Materials
Biopolymer
Energy Materials
Electrochemistry

Careers

Graduates obtain an opportunity for employment in chemical plants (oil refinery, petrochemical, fertilizer, synthetic resin, oil and fat, food industry, inorganic chemistry, explosives, cement, glass, dye, rubber, paint, pulp and paper, metal, and smelting) in all over the country, thermo-electrical and nuclear power plants, steel mills, photoelectron fields (semiconductor component/equipment, LCD, and photo component manufacturing), textile-related fields, sales fields for trading companies, pharmaceutical fields, cosmetics fields, polymer-related fields, research institutes, and civil service.

Department of Biotechnology & Bioengineering

Contact Information
Phone: +82-62-530-1048
Fax: +82-62-530-1949
E-mail: biohsj@jnu.ac.kr
URL: http://bte.jnu.ac.kr

What is Biotechnology & Bioengineering?

Biotechnology & Bioengineering is believed to be one of the key disciplines leading to solve some of the most challenging problems that face our world today. Biotechnology & Bioengineering is defined as the biological application of engineering principles or engineering equipment in biological systems, food, energy, and the environment as well as healthcare. Incorporating recent advances in science and engineering including the fields of biology, chemistry, medicine, electrical and mechanical engineering, and information technology, Biotechnology & Bioengineering allows us to understand the phenomena of life and develops effective biology-based technologies.

Department of Biotechnology & Bioengineering

Our department has been creatively fusing a broad area of bioengineering and life sciences to train and foster students to have an impact in corporate, professional and academic communities. Our mission aims to provide a fundamental bioengineering discipline grounded in basic sciences and the ability in realizing many various biological applications powered by practical and comprehensive curricula. It will allow students to acquire a high degree of confidence and motivation as bio-technologists and bio-engineers and to become engines in the fields of biotechnology including foods, medicine, pharmaceuticals, cosmetics, bioenergy and the environment.

Professors

- Jong-il Choi, Ph.D.
  [Biomolecules Engineering, choiji01@jnu.ac.kr]
- Seung Hwan Lee. Ph.D.
  [Metabolic Engineering, leesh@jnu.ac.kr]
- Sooim Shin, Ph.D.
  [Protein Engineering, sooim.shin@jnu.ac.kr]
- Tae Wan Kim, Ph.D.
  [Bioprocess Development & Optimization, chekimtw@jnu.ac.kr]
- Kibaek Lee, Ph.D.
  [Environmental Biotechnology, kibaek@jnu.ac.kr]
- Changman Kim, Ph.D.
  [Applied Microbiology & Biotechnology, cmkim@jnu.ac.kr]
- Youngung Seok, Ph.D.
  [Biosensors & Materials, stonehero@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students learn bioengineering disciplines as well as mathematics, physics, chemistry and biology. Students also obtain broad exposure to Chonnam National University's other great classes offered in other departments and colleges such as humanities and social sciences. Undergraduate students are required to earn at least 140 credits of coursework for graduation (a minimum of 69 units in department courses, a minimum of 37 units in liberal arts courses and a minimum of 34 units in elective courses). It normally takes four academic years of full-time study. Students may also undertake a second major or minor to broaden the scope of their studies.

■ What Do You Study?

▮ Core Courses

Writing for Self-reflection and Communication
General Physics 1
Mathematics 1
Mathematics 2
General Chemistry 1
Chemistry Laboratory 1
Career Plan and Self Understanding
General Biology 1
General Biology 2
Biology Laboratory 1
Biology Laboratory 2
Introduction to Engineering Design
Biochemical Separation Process
Bio Engineering 1
Biochemical engineering Lab. 1
Biochemical engineering Lab. 2
Biochemical engineering Lab. 3
Microbiology
Bioprocess Engineering 1
Biochemistry 1
Organic Chemistry
Physical Chemistry
Engineering Mathematics 1
Capstone Design
Biostatics and practice

▮ Electives

Bio Engineering 2
Biochemical Process Calculation
Applied Microbiology
Introduction to Bioengineering and Biotechnology
Transfer Operation
Bioreaction Engineering and Design
Bioanalytical Chemistry
Bioprocess Control
Bioinfomatics
Metabolic Engineering
Plant Design
Bio Engineering Seminar 1
Fermentation Technology and Design
Basic Research for Biotechnology & Bioengineering 1
Basic Research for Biotechnology & Bioengineering 2
MATLAB programing & Practice
Enzyme Engineering
Bioseparation and Purification Techniques
Special Lecture on Biotechnology and Bioengineering
Biomedical Engineering
Instrumental Analytical Methods
Protein Engineering
Introduction to Biomedical Engineering
Bioprocess Engineering 2
Biomaterials
Environmental Biotechnology
Biochemistry 2
Molecular Biology
Engineering Mathematics 2

Food Engineering
Genetic Engineering
Industrial Microgiology
Biomass and Bioenergy Laboratory
Bionano applications
Inorganic Materials
Inorganic Chemistry
Experimental Design analysis & Lab

■ Careers

Some undergraduate students continue their academic endeavor by entering graduate schools in Korea as well as abroad. Others take a position in academia, public and private research institutes, and the industry. Moreover, some become involved in bio-venture businesses quite successfully.

Department of Civil Engineering

Contact Information
Phone: +82-62-530-1650
Fax: +82-62-530-1659
E-mail: whiskey12@jnu.ac.kr
URL: http://civil.jnu.ac.kr/

What is Civil Engineering?

The fields of civil engineering offer careers in the planning, design, construction and management of the built environment as well as in the interaction between the built environment and the natural environment. Civil engineering plays an essential role to our community. There are significant interdisciplinary challenges in refining and maintaining the quality and sustainability of the infrastructure of interconnected systems, which are important to our quality of life. These systems include transportation, highways, rapid transit lines, airports, civil structures, construction materials, land surveying, stream channels, pipelines and wastewater treatment systems. The response of this infrastructure to natural hazards and environmental interaction is a critical challenge in this area. The faculty and staff within the civil engineering department are committed to educating the next generation of engineers and leading the development of this field through research and outreach.

School of Civil Engineering at Jeonnam National University

The School of Civil Engineering is concerned with the control of the environment for the benefit of humankind. Civil engineers provide modern society with vital infrastructure and lifeline systems such as cities, roads, buildings, bridges, railroads, and water systems.

- 1951. 01: Establishment of Department of Civil Engineering
- 1999. 03: Reorganization of Departments of Civil, Earth, and Environmental Engineering
- 2002. 03: Reorganization of Departments of Civil, Geosystems, and Environmental Engineering
- 2009. 03: Reorganization of Department of Civil Engineering

Professors

- Tae-Jun Ha, Ph.D.
  [Professor, Traffic Engineering & Urban Planning, tjha@jnu.ac.kr]
- Inkyu Rhee, Ph.D.
  [Professor, Structural Mechanics and Material Science, rheei@jnu.ac.kr]
- Jong-in Rhee, Ph.D.
  [Professor, Coastal/Harbor Engineering jilee@jnu.ac.kr]
- Jae-min Kim, Ph.D.
  [Professor, Structural Engineering, jm4kim@jnu.ac.kr]
- Young-sang Kim, Ph.D.
  [Professor, Geotechnical Engineering, geoyskim@jnu.ac.kr]
- Jeong-won Heo, Ph.D.

[Professor, Structual Engineering, jwonhuh@jnu.ac.kr]
- Dong-yeob Han, Ph.D.
[Professor, Geospatial Informatics, hozilla@jnu.ac.kr]
- Chang-ho Rhee, Ph.D.
[Professor, Geotechnical Engineering, changho@jnu.ac.kr]
- Jae-JIn Park, Ph.D.
[Associate Professor, Road Engineering, tjha@jnu.ac.kr]
- Young-Uk, Ryu, Ph.D.
[Assistant Professor, River and Coastal Engineering, yuryu@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop the understanding and capabilities needed to meet the challenges of a modern technological society. Students are required to earn at least 130 credits (102 credits from Department courses and 28 from electives), which normally takes four years of full-time study to complete. The minor and the double major programs are offered to give students an opportunity to broaden the scope of their major fields.

■ What Do You Study?

▮ Courses

Introduction to Civil Engineering & Design
Surveying and Practice 1
Fluid Mechanics
Probability and Statistic
Hydraulics and lab
Mechanics of Materials
Civil Engineering Materials and Lab
Civil Engineering (AI)
Structural Mechanics
Engineering Mathematics 1
Engineering Mathematics 2
Surveying and Practices 2
Dynamics Hydrology
Applied Hydraulics
Environmental Engineering
Advanced River Hydraulics
Soil Mechanics and Lab 1
Design of Concrete Structures 1
Highway Engineering and Design
Transportation Engineering
Soil Mechanics and Lab 2
Photogrammetry
Design of Concrete Structures 2
Construction Works & Design
Water Supply, Sewage Engineering & Design
Steel Structural Engineering
Dam Engineering
Pre-stressed Concrete
Urban & Transportation Planning
Foundation Engineering & Design
Coastal & Harbor Engineering
Geospatial Information Surveying
Construction Environment Influence Valuation & Design
Environmental Impact Assessment & Design
Noise and Vibration
Bridge Engineering
Railroad Engineering
Transportation Engineering
Rock Engineering & Design
Design for Soil Structure
Pavement Engineering & Design
Practical Design of Civil Engineering
Water Resources Engineering
Basic Computer Programming & Practice

Physics Laboratory 1
Chemistry Laboratory 1
Educational Theory in Construction
Study and Guidance on Constructional Teaching
Constructional Technology Logic and Essay Writing
Teaching Children with Learning Disabilities
Practical Affairs for the Teaching Profession
Teaching Practice 1
Teaching Practice 2

■ Careers

Graduates are currently playing active roles in central and local government organizations (e.g., Ministry of Construction and Transportation, Ministry of Environment, etc.), public corporations (Korea Water Resources Corporation, Korea SH Corporation, Korea Rural Community Corporation, Korea Highway Corporation, etc.), and research institutes (e.g., Korea Institute of Construction Technology). Also, private companies and corporations dealing with bridges, harbors, roads, and dams prefer to hire environmental engineers. Some graduates go on to graduate school to further specialize in their discipline in the field of civil engineering.

Department of Electrical Engineering

Contact Information
Phone: +82-62-530-1740
Fax: +82-62-530-1749
E-mail: middle74@chonnam.ac.kr
URL: http://elec.jnu.ac.kr/eng/

What is Electrical Engineering?

Electrical Engineering (EE) is based on sciences such as mathematics, physics, and chemistry. Electrical engineering students learn how to transform power sources such as fossil fuels, hydro-electricity, atomic, wind, solar light or heat, and tidal energy into electricity. Students learn how to transport this energy efficiently and steadily to distant places. Students also study how to transform electricity into other types of energy such as light, heat, and power. Ultimately, students search for the best materials, components, and systems when generating and transforming electricity.

Department of Electrical Engineering

The Department's primary educational goal is to train professionals who will play leading roles in the electrical engineering field. It also aims to cultivate students' abilities to earn careers in the industry by providing them with broad research opportunities that build on the academia-industry cooperation system.

The Department's goals can be broken down into the following practical aims:

- acquiring systematic knowledge and skills about general electrical engineering fields
- mastering the development, operation, and management ability of electrical application skills
- making effort toward the development of the electrical engineering industry.

The Department was chosen to participate in the Electrical Industry Basic Human Power Fostering Project and the New University for Regional Innovation Project by the Ministry of Commerce, Industry, and Energy. It provides students with various educational opportunities and scholarships. It recognizes the importance of rewarding scholarship systems to encourage outstanding students who have exceptional academic records and demonstrate good conduct, and welfare scholarship systems that support financially-limited students.

Professors

- Kyung-Woo Ryu, Ph.D.
  [Professor, Superconductivity Applications, kwryu@jnu.ac.kr]
- Joon-Ho Choi, Ph.D.
  [Professor, Power System and Electrical Apparatus, joono@jnu.ac.kr]
- Sung-Jun Park, Ph.D.
  [Professor, Design of Electronic System Based on Micro Processors, sjpark1@jnu.ac.kr]
- Seon-Ju Ahn, Ph.D.
  [Professor, Smart Grid, sjahn@jnu.ac.kr]
- Yong-Hoon Choi, Ph.D.

[Associate Professor, Wired/Wireless Innovative Technologies and Hybrid, yh.choi@jnu.ac.kr]

- Sang-Yun Yun, Ph.D.
  [Professor, Power System, drk9034@jnu.ac.kr]
- Dong-Hee Kim, Ph.D.
  [Associate Professor, Energy Mechatronics, kimdonghee@jnu.ac.kr]
- Young-Woo Lee, Ph.D.
  [Assistant Professor, Automatic Control, stork@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop the understanding and capabilities needed to meet the challenges of a modern technological society. The students are required to take 140 credit hours (102 credits in a major of related courses and 38 credits in general studies courses), which normally takes four years of full-time study. The minor and double major programs are offered to give students an opportunity to broaden the scope of their major field.

■ What Do You Study?

▮ Major required

Engineering Mathematics
Vector Analysis
Applied Mathematics
Electrical Engineering Basic Lab
Power Electronics1
Electromagnetism 1
Electromagnetism 2
Circuit Theory 1
Circuit Theory 2
Automatic Control Engineering
Micro electronics Lab
Electric Machinery 1
Smart Power System Engineering1
Electric Machinery 2
Electronic Circuit

▮ Major Electives

Internship
Introduction to Engineering Design
Engineering Software Applications
Computer Programming Language for Engineers
Data Analysis and Optimization
Digital Logic Circuit
Design of Microprocessor Applications
High Voltage and High Current Engineering
Digital System Engineering
Renewable Energy System Engineering
Power IoT and Sensor
Modern Control
Smart Power System Engineering 2
Theory of Electrical Materials Properties
Illuminating Design
Electric Vehicle and control
Electrical Engineering Capstone Design
Power Distribution System Engineering
Display Electronics
Electrical Energy Storage Systems
Information and Communication Technology for Power System 1
Information and Communication Technology 1 for Power System 2
Power System Operation Practice
Electricity Market Theory and Practice
Recent technical trends in Smart Grid
Electric Circuit Basic Lab
Electrical Engineering Seminar
Power Electronics 2
Introduction to Artificial Intelligence

▮ Minor Required

Electromagnetism 1

Circuit Theory 1
Electric Machinery 1
Electric Machinery 2

▮ Minor Electives

At least 9 credit hours of the major courses should be chosen.

■ Careers

Thanks to the fundamental engineering characteristics of electrical engineering, graduates are obtaining distinction in all industrial positions, including key national industrial companies and IT venture companies.

In particular, many graduates are currently employed by KEPCO, Samsung Electronics, LG Electronics, and Hyundai Heavy Industries.

Department of Energy & Resources Engineering

Contact Information
Phone: +82-62-530-1720
Fax: +82-62-530-1729
E-mail: energy@jnu.ac.kr
URL: http://resources.jnu.ac.kr

What is Energy & Resources Engineering?

These days, natural resources are essential to develop domestic economies. Each country is trying to secure natural resource stability due to a lack of resources. Currently, our government is making efforts to develop the technology of resource extraction and to encourage advanced resource engineers because the issue of gaining resources is not simply based on geopolitical situations. In order to meet the demands of the time, the Department of Energy & Resource Engineering deals with applied geology & geochemistry, geophysical prospecting, resource development engineering, petroleum engineering, mineral processing, mine safety & environment, drilling engineering, and resource economics.

Professors

- Kim Myungjun, Ph.D. [Professor, Hydro-metallurgy and Recycling, junkim@jnu.ac.kr]
- Lee Jong-Un, Ph.D. [Professor, Microbial Geochemistry, jongun@jnu.ac.kr]
- Lee Jeonghwan, Ph.D. [Professor, Petroleum & Natural Gas, jhwan@jnu.ac.kr]
- Kil Youngwoo, Ph.D. [Professor, Applied Geology & Geochemistry, ykil@jnu.ac.kr]
- Yoon Daeung, Ph.D. [Assistant Professor, Geophysical Prospecting, duyoon@jnu.ac.kr]

Degree Requirements

Students are required to earn 140 credits, with 48 credits from core courses within the Department, and 29 from general electives. Students will also be required to submit a graduate thesis, and demonstrate ability in a foreign language.

What Do You Study?

Core Courses

Applied Geochemistry and Lab
Energy & Resources Engineering Capstone Design
Engineering Mathematics 1
Exploration Geophysics & Design
Exploration of Geochemistry & Lab
Field Training
Hydrometallurgy and Lab.
Introduction to Creative Design
Petroleum Engineering Laboratory

Petrology And Lab.
Reservoir Engineering
Resource Development Engineering
Resource Economics
Resource engineering & CO2 utilization
Rock Mechanics and Design
Seismic Prospecting & Lab

▮ Electives

Engineering for CO2 Geological Storage
Engineering Mathematics 2
Environmental geology
Future Energy Resources Development Engineering
Geomicrobiology and Lab.
GPR and Electromagnetic Prospecting
Industrial Mineralogy and LAB
Introduction of Energy Resources Engineering
Introduction to A.I. for energy resources development
Mine Planning and Design
Mineral Processing & Plant Design 1
Mineral Processing & Plant Design 2
Mineralogy and Lab.
New and Renewable Energy Engineering
Numerical analysis
Petroleum Drilling Engineering
Petroleum geology
Petroleum Production Engineering
Python programming & practice
Resource evaluation and Policy design
Rock Blasting and Design
Safety Engineering for Resources Development
Science of Ore Deposits and Lab.
Tunnel Engineering & Design

■ Careers

Government Ministry

Ministry of Environment Republic of Korea, Ministry of Knowledge Economy

Institutes

Korea Institute of Geoscience and Mineral Resources(KIGAM), Korea Ocean Research & Development(KORDI), Korea Environment Institute, Korea Institute of Science & Technology Evaluation and Planning, etc.

Public Organization

Korea National Oil Corporation(KNOC), Korea Resources Corporation(KORES), Korea Rural Community Corporation, Korea GAS Corporation (KOGAS), etc.

Domestic Companies

SK, SK Energy, GS Caltex, SK E&C, GS E&C, Samsung C&T, Posco, Daewoo International Corporation, Daewoo Shipbuilding and Marine Engineering, STX Energy, etc.

The others

Mine Reclamation Corporation, Korea Energy Management Corporation, Korea Petroleum Association, etc.

Department of Environment and Energy Engineering

Contact Information
Phone: +82-62-530-1860
Fax: +82-62-530-1859
E-mail: sunnyoov@jnu.ac.kr
URL: http://eee.jnu.ac.kr

What is Environment and Energy Engineering?

The main objectives of environment and energy engineering are controlled use and preservation of environment and developing new renewable energy. Environment and energy engineering applies engineering and scientific principles to protect human health and to maintain and improve eco-systems. Our graduates are trained to design, build, operate, and manage organizations and facilities that protect people and the environment by developing new renewable energy. Environment and energy engineering is generally treated as an independent engineering discipline by the engineering profession. We live amid intricate interactions and complex problems created between living beings and their environments, or by variabilities of nature itself. These problems can have disastrous consequences of enormous magnitude and are very difficult to resolve. Environmental researchers investigate these interactions to guard each being from the harmful effects of others.

Department of Environment and Energy Engineering at CNU

- 1992. 03: Establishment of Department of Environmental Engineering
- 1999. 03: Reorganization of Departments of Civil, Earth, and Environmental Engineering
- 2002. 03: Reorganization of Departments of Civil, Geosystems, and Environmental Engineering
- 2009. 03: Reorganization of Department of Environmental Engineering
- 2013. 03: Reorganization of Department of Environment and Energy Engineering

Professors

- Yong-Woon Lee, Ph.D.
  [Professor, Water Quality Management System, ywlee@jnu.ac.kr]
- Sung-Yong Cho, Ph.D.
  [Professor, Eco-Energy and Air Pollution Engineering, syc@jnu.ac.kr]
- Seong-Jun Kim, Ph.D.
  [Professor, Environmental Biotechnology, seongjun@jnu.ac.kr]
- Jeong-Hun Park, Ph.D.
  [Professor, Treatment of Contaminated Soils and Wastes, parkjeo1@jnu.ac.kr]
- Ho-Young Jung, Ph.D.
  [Professor, Environmental Energy Materials, jungho@jnu.ac.kr]
- Sok-Hee Jung, Ph.D.
  [Associate Professor, Microbial Fuel Cells Bioenergy, sokheejung@jnu.ac.kr]
- Yong-Gyun Park, Ph.D.
  [Associate Professor, Smart Water Grid and Water Digitalization, ygpark7@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop both the understanding and capability needed to meet the challenges of a modern technological society. Students are required to earn at least 140 credit hours (69 from Department courses, 42 from cultural studies and 29 from electives), which normally takes four years of full-time study. Students may also earn double majors or minors as a means of broadening the scope of their studies.

■ What Do You Study?

▮ Core Courses

Introduction to Engineering Design
Renewable Energy
Environmental Chemistry
Water Quality Management and Practice
Environmental Microbiology
Environmental Reaction and Design Engineering
Environmental Biotechnology and Practice
Coping Engineering with Air Pollution and Climate Change
Design of Combustion Facilities
Waste Resource Treatment and Energy Engineering
Environmental Energy Engineering and Practice
Air Pollution Management
Energy System Design
Hazardous Wastes Management and Soil Remediation Engineering
Environmental Engineering Capstone Design
Environmental Electrochemistry

▮ Electives

Green Energy
Fluid Mechanics
Probability and Statistics
Engineering Mathematics 1
Introduction to Environmental Engineering
Environmental Ecology
Environmental and Energy Engineering Laboratory
Engineering Mathematics 2
Wastewater Treatment Engineering and Practice
Environmental Fundamental Laboratory
Environmental Engineering Laboratory 1
Environmental and Climate Change Impact Assessment
Atmospheric Particle Engineering and Experiments
Wastewater Treatment Engineering and Practice
Environmental Engineering Laboratory 2
Water Supply and Sewage Engineering
Energy Convergence Engineering
Waste Energy Engineering
Field Practice
Environmental Toxicology and Practice
Environment and Safety Engineering and Practice
Resources from Biomass
Bioenergy
Noise and Vibration
Environmental Chemistry of Soils
Industry-oriented Education and Practice
Environmental Process Design and Practice
Environmental Laws
Intellectual Properties in Environmental Energy Engineering

■ Careers

Graduates are currently playing active roles in central and local government organizations (e.g., Ministry of Environment), some public corporations (Korea Water Resources Corporation, Korea Environment Corporation, Korea Electric Power Corporation) and research institutes (e.g., National Institute of

Environmental Research, Korea Institute of Energy Research).

Graduates also have careers in business corporations dealing with environmental impact assessment, air pollution control facilities, wastewater treatment, hazardous wastes treatment, environmental remediation, new renewable energy, and waste recycling facilities. They are usually in charge of the environment and safety of their company. Some graduates go on to graduate school to further specialize in their discipline of environment or energy engineering.

Department of Industrial Engineering

Contact Information
Phone: +82-62-530-1780
Fax: +82-62-530-1789
E-mail: iejnuackr@gmail.com
URL: http://ie.jnu.ac.kr

■ What is Industrial Engineering?

Industrial Engineering (IE), which plays a more important role in modern society than ever before due to the advent of the 4th industrial revolution, is a discipline that focuses on design, management, and improvement of systems composed of humans, machines, materials, energy, and information in a rapidly changing industrial environment. IE is primarily concerned with how to organize people, machineries, information, technologies, money, and materials to produce and distribute products and services more efficiently. Its main objectives are to improve the productivity, safety, and resilience of systems and to find their optimal operation schemes. It is an interdisciplinary program, using engineering analyses, design principles and methods as well as natural scientific theories, such as mathematics and physics, management, software-related studies, artificial intelligence, and professional knowledge of social sciences.

■ Department of Industrial Engineering

In the department of Industrial Engineering (IE), students learn about the design, management, and improvement of systems composed of human beings, machines, materials, energy, and information under rapidly changing industry surroundings, ultimately to determine the optimal operation schemes of a system and to improve system productivity and efficiency. The department of IE teaches students to analyze the cardinal characteristics of the industry and the business environment, and trains them how to utilize various methods towards optimal design, management and operation under given circumstances. The educational goals of IE program are to help students cultivate their management skills as well as engineering proficiency, to guide them to develop their problem solving and decision making skills, and to encourage them to be competent engineering leaders in a wide range of work domains.

Students are expected to obtain strong academic basics in undergraduate programs that are developed to offer classical as well as modern subjects in the field of IE in a systematic and logical manner.

■ Professors

- Chung, Sang Wook, Ph.D.
  [Professor, Reliability Engineering, swchung@jnu.ac.kr]
- Lee, Joon-Woong, Ph.D.
  [Professor, Computer Vision & Software Development for Autonomous Vehicles, joonlee@jnu.ac.kr]
- Lee, Jae Yeol, Ph.D.

[Professor, HCI Design, jaeyeol@jnu.ac.kr]
- Kim, Nam Ki, Ph.D.
  [Professor, Stochastic Systems & Creative Problem Solving, freedom@jnu.ac.kr]
- Ham, Dong-Han, Ph.D.
  [Professor, Cognitive Systems Engineering, Human-Computer Interaction, & System Safety, dhham@jnu.ac.kr]
- Jeong, Young-Seon, Ph.D.
  [Professor, Statistical Data Mining, Intelligent Transportation Systems, young.jeong@jnu.ac.kr]
- Joo, Si-Hyung, Ph.D.
  [Associate Professor, Management of Technology, innovation@jnu.ac.kr]
- Joung, Seul Gi, Ph.D.
  [Assistant Professor, Optimization under uncertainty & Applications of OR, sgjoung@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits to graduate, which compulsorily include 30 credits from liberal arts courses, 15 credits from department core courses, 33 credits from department electives, and 21 credits from the other courses in their own major, minor, or double major.

■ What Do You Study?

▮ Core Courses

Basics of computer programming
Introduction to Probability and Statistics
Operations Research 1
Production Management 1
Capstone Design for Industrial Engineering

▮ Electives

Guides for University Students
Problem solving and algorithms
Introduction to Industrial Engineering
Introduction to Engineering Design
Engineering Mathematics
Case Studies of Industrial Engineering
Engineering Economy
Special Topics in Industrial Engineering
Work Systems Engineering
Manufacturing engineering
Matrix and Linear Algebra
Application of C Programming
Object-Oriented Programming
Management of Technology
DB Modeling
Data Analysis and its Applications
System Analysis & Design
Human Interface Engineering
Operations Research 2
Introduction to Data Mining
Design Engineering
Design of Experiments
Knowledge Engineering
Creative Problem Solving and Starting Up a Venture Business
Quality Control
Software Applications for Industrial Engineering
Production Management 2
Special Topics in Systems Engineering
Human Factors Engineering
Artificial intelligence and applications
Financial and Management Analysis
Quality Engineering
MachineLearning
Complex Systems Engineering
Service Engineering
Simulation and S/W Practice
Systems optimization
Reliability Analysis & Design

Marketing and Technological Innovation Strategy
Case Studies in Industrial Systems
System Safety Engineering
Product development engineering
Project Management

■ Careers

Graduates often find lucrative careers in the manufacturing industry. Alumni have also found positions in academia, civil service, IT, and so on. (For a list of those job positions, see http://ie.jnu.ac.kr/joblist/.) The degree promises to be even more valuable in the future.

Department of Computer Engineering

Contact Information
Phone: +82-62-530-1751
Fax: +82-62-530-3439
E-mail: A5104@jnu.ac.kr
URL: http://ce.jnu.ac.kr

■ What is Computer Engineering?

The goals of Computer Engineering (CE) are to introduce concepts in computer, information and communications engineering in an integrated manner; to motivate basic concepts in the context of real applications; to illustrate a logical way of thinking about problems and their solutions; and to convey excitement about the profession. These goals are attained through the analysis, construction, and testing of systems that incorporate concepts from a broad range of areas within computer, information and communications engineering.

■ Department of Computer Engineering

Electronic appliances, communication equipment, medical equipment, and information service systems that are easily seen in our daily lives result from the combination of electronic circuit technology, imbedded computer technology, and software operation technology. The combination of hardware and software occurs simultaneously in all the current industries and the combination of computer-based IT and other technologies can manufacture high value products. As hardware manufacturing technology becomes more diversified and generalized, engineers with hardware and software-related knowledge are needed in various fields of the industry.

Computer and Information Communications Engineering is the study of the technologies of mobile equipment such as Smartphones, and software technologies needed for the manufacturing of network systems such as clouds, internet service systems, etc. Courses include logic circuits, basic circuit theory, computer structures, digital synthesis design, etc. In addition, communication theory, data communication, and computer networking are taught for the understanding of information communication systems and intelligence systems, multimedia systems, imbedded systems, and computer medical systems as well as generic IT application systems.

In Computer and Information Communications Engineering, the concepts of hardware and software are taught and understood through experimentation. The combination of SOC (System on a Chip) design technology and computer OS helps students understand the technology needed for applied systems in IC components such as MP3 players. Also, understanding data communication and multimedia transmission technology software helps them experience futuristic multimedia systems, such as smart TVs, and students operate robots and vehicles through programming and acquire knowledge. Courses also provide chances for field experience in connection with industry (companies). Customized scholarship programs benefit

students in school and after graduation with the cooperation of prominent local companies, Samsung Electronics, LG Innotek, Hynix Semiconductor, Inc, and LG Display among others.

■ Professors

- Young-Chul Kim Ph.D.
  [Professor, System on Chip Design, yckim@jnu.ac.kr]
- Ji-Seung Nam Ph.D.
  [Professor, Computer Network, jsnam@jnu.ac.kr]
- Chil-Woo Lee Ph.D.
  [Professor, Computer Vision/Intelligent Human Interface, leecw@jnu.ac.kr]
- Yonggwan Won Ph.D.
  [Professor, Computational(Artificial) Intelligence, Biomedical Engineering, Healthcare System, ykwon@jnu.ac.kr]
- Jaehyung Park Ph.D.
  [Professor, State-of-the-Art of Network Technology and Security, hyeoung@jnu.ac.kr]
- Jin-Sul Kim, Ph.D.
  [Professor, Multimedia, QoS/QoE, Edge Computing, Intelligence Platform, Metaverse, AI, Digital Content, IT Convergence Technologies, jsworld@jnu.ac.kr]
- Hosung Park, Ph.D.
  [Associate Professor, Coding theory, Communications systems, Information theory, hpark1@jnu.ac.kr]
- Sunyong Yoo, Ph.D.
  [Assistant Professor, Bio and medical informatics, Artificial intelligence, Bigdata analysis, syyoo@jnu.ac.kr]
- Suhyung Park, Ph.D.
  [Assistant Professor, Medical Signal and Image Processing, suhyung@jnu.ac.kr]
- Young-woo Lee, Ph.D.
  [Assistant Professor, VLSI/SoC design, ylee@jnu.ac.kr]
- Myeongjin Kim, Ph.D.
  [Assistant Professor, VR&AR, Haptic, Artificial intelligence, Computer Graphics, Computer vision, myeongjin@jnu.ac.kr]

■ Degree Requirements

Computer Engineering students are required to earn 140 credits including 12 credits from liberal arts, 26 credits from MSC courses, 36 credits from CE compulsory courses, 28 credits from CE electives, and 38 credits from general electives.

■ What Do You Study?

▮ Core Courses

Introduction to Engineering Design
Engineering Mathematics 1
Logic Circuits Design
Linux System & Practice
Linear Algebra
Discrete Mathematics
C Programming & Practice
Advanced Computer Programming & Practice
Data Structures
Computer System Architecture
Probability and Statistics
Operating System
Artificial Intelligence
Embedded Software
Computer Engineering Project1(Capstone Design)
Computer Engineering Project2(Capstone Design)

Electives

Software Programming Basics & Practice
Basic Circuit Theory
IoT Computing
Data Communication
Signals and System Engineering
Open Source Application
Data Base Systems
Digital Signal Processing
Software Engineering & Application
System IC Design
Web Programming
Digital Communication Engineering
Microprocessors
Neural Networks and Deep Learning
Computer Graphics
Computer Convergence Seminar
Computing Algorithm
Virtual Reality
MachineLearning
Digital Image Processing
Mobile Communication System
Smart Vehicle System
Embeded System
Intelligent ICT Convergence Seminar
Computer Networks
Reinforcement learning
Routing Protocol
Distributed Systems
Big Data System
Advanture Project
AI Semiconductor design
Computer Information Security
Cloud Computing
Communications and Future Technology
Human Interface
Field Practice of Intelligent ICT Convergence
Field Practice of Computer Engineering

Careers

Graduates of Computer Engineering are actively working in various fields of society such as domestic companies, TV stations, and in public and venture companies as high-ranking public officers or patent agents.

Otherwise, they continue their studies at graduate schools for masters or doctoral degrees and become professors at universities or leading researchers in many industrial institutes or laboratories headed by large domestic companies and national and public laboratories. They include Samsung, LG, Daewoo, Hyundai, SK Hynix, TV stations, financial companies, KEPCO (Korea Electric Power Corporation), KT, SKT, NHN, ETRI, etc.

Department of Electronic Engineering

Contact Information
Phone: +82-62-530-1800, 1801
Fax: +82-62-530-3439
E-mail: cico98@jnu.ac.kr / oka@jnu.ac.kr
URL: http://ee.jnu.ac.kr

What is Electronic Engineering?

Historically, Electronic Engineering, as a study to create, deliver, transform, and manage different forms of "information", includes telecommunications, radio wave engineering, semiconductor devices, design of the integrated circuit, control/robotics, and signal processing.

It is an area of engineering study to learn electronic appliances, telecommunication devices, software & hardware for industrial electronic equipment in terms of its principles, design, and manufacturing. Electronic Engineering has a distinctive nature of highly integrated technology and fast-moving innovations, where it continuously evolves with the rapid development of integrated circuits and computers.

In other words, it expanded from the hardware itself to the areas for system and applied software, which is now becoming an intellectual study in the fourth industrial revolution.

Particularly, control/robotics, signal processing, design of integrated circuits, etc. closely interconnected with the artificial intelligence technology; hence, it generates high-valued system and services.

This study emphasis professional knowledge and creative thinking which is suitable for the new wave of the fourth industrial revolution; further, focuses on making a comprehensive syllabus consisting of theory and design, hands-on experiments, and advanced education enabling autonomous project handling.

Department of Electronic Engineering

Electronic Engineering is everywhere in our daily appliances such as smartphones, televisions, game consoles, etc.; thus, it gives practitioners the benefits to broadly apply it to lots of areas. In particular, as the professors of the Electronic Engineering faculty of Chonnam National University focus on, the concerned studies embrace various applications to the modern technologies, including telecommunication, signal processing for image & sound, biometric & medical technologies, intellectual control, etc.

In addition, Electronic Engineering has distinctive characteristics of integration of different technologies as well as innovation-oriented nature. Furthermore, as a leading technology in the industry, it encourages the development of other disciplines at the time of its convergence with other technologies. Especially, it is essentially associated with pure electronics industries such as semiconductors, smartphones, etc., which involve technology-intensive but fast-growing businesses. Hence, such businesses demand a large number of highly educated manpower; accordingly, it gives students opportunities for quality jobs.

The faculty emphasizes logical reasoning and forward-thinking to deal with the wave of the fourth

industrial revolution. To do so, it mainly aims for students to be suitably qualified as experts in the electronic engineering discipline by developing their own competencies and encompassing: (i) a balanced syllabus having both theoretical and practical (design) classes; (ii) task-based experiments and practice; and (iii) an advanced educational program based on hands-on projects for students to enhance their creativity in practice.

■ Professors

- Jin Young Kim, Ph.D.
  [Professor, Signal Processing & Aartificial Intelligence, beyondi@jnu.ac.kr]
- Dae Jin Kim, Ph.D.
  [Professor, Digital Communication, djinkim@jnu.ac.kr]
- Sung-Hoon Hong, Ph.D.
  [Professor, Image Processing, hsh@jnu.ac.kr]
- Baek, Sung-June, Ph.D.
  [Professor, Digital Signal Processing, tozero@jnu.ac.kr]
- Dong Kook Kim, Ph.D.
  [Professor, Audio Signal Processing & Aartificial Intelligence, dkim@jnu.ac.kr]
- Taejin Jung, Ph.D.
  [Professor, Wireless Communication, tjjung@jnu.ac.kr]
- Choi, Su-il, Ph.D.
  [Professor, Optical Communication & Embedded Systems, sichoi@jnu.ac.kr]
- Intae Hwang, Ph.D.
  [Professor, Mobile Communications, hit@jnu.ac.kr]
- Taeksoo Ji, Ph.D.
  [Professor, Semiconductor & Electronic device, tji@jnu.ac.kr]
- Myoung Jin Lee, Ph.D.
  [Professor, Semiconductor device & Circuit design, mjlee@jnu.ac.kr]
- Hyun Duck Choi, Ph.D.
  [Assistant Professor, Next Generation Intelligent Control & Aartificial Intelligence, ducky.choi@jnu.ac.kr]
- Jinseok Park, Ph.D.
  [Assistant Professor, RF/Analog Semiconductor Circuit Design, jinseok131@jnu.ac.kr]

■ Degree Requirements

Electronic Engineering undergraduate students are required to earn 140 credits including 20 credits from liberal arts education courses, 32 credits from MSC courses, 32 credits from EE compulsory courses, 27 credits from EE electives, and 29 credits from general electives.

■ What Do You Study?

▮ Core Courses

C Programming & Practice
Engineering Mathematics 2
Advanced Programming Project
Circuit Theory 1
Logic Circuits Design
Basic Circuit Experiment
Microelectronics Lab.
Electronic Circuit 1
Electromagnetism 1
Signal and Systems
Basic Project of Electronic Engineering

Control Engineering
Communication Theory
Microprocessor Capstone Design
Microwave Engineering
Digital Image Processing
Capstone Design
Digital System Design

▮ Electives

Introduction to Engineering Design
Electronic Engineering Seminar
Engineering Mathematics 1
Probability and Statistics
Linear Algebra
Circuit Theory 2
Data Structures
Digital Signal Processing
Electromagnetism 2
Electronic Circuit 2
Physical Electronics
Digital Communication Engineering
Integrated circuit Design
Semiconductor Engineering
Intelligent Control
RF Circuit Design
Embedded System
Artificial Intelligence
Data Networks
Semiconductor Process Technology
SOC Design
Robots Engineering
TCP/IP Networks
AI Semiconductor designy

■ Careers

Many alumni who studied Electronic Engineering at Chonnam National University show good working performance in various organizations such as companies, TV broadcasting centers, government-run corporations, venture companies, public institutions, etc.

For another career path, some students continue their studies at graduate schools for masters or doctoral degrees so that they become either professors at universities or leading researchers in technical institutes or laboratories. The researching job for the professionals are not limited to those but include the conglomerates such as Samsung, LG, LIG, Hyundai, SK Hynix, Korea Electric Power Corporation(“KEPCO”), KT, SKT, NHN, etc. in addition to the public organization such as Korea Broadcasting System (“KBS”), ETRI, etc.

Department of Software Engineering

Contact Information
Phone: +82-62-530-1750, 3420
E-mail: osh0327@jnu.ac.kr/
kimmin1210@jnu.ac.kr
URL: http://sw.jnu.ac.kr

■ What is Software Engineering?

It has been increasingly crucial to foster the software industry. With the growing need for software and artificial intelligence professionals, the basic goal of the Department of Software Engineering is to train professional programmers to participate in software system development.

By cultivating the ability to use various types of programming languages, acquiring basic theories and applied technologies necessary for designing software systems, and then going through the process of developing Linux-based systems and systems used on the Internet, the curriculum of the department aims to nurture essential high-level manpower.

In addition, basic knowledge and software development skills in artificial intelligence, cloud service, embedded systems, and mobile and IoT (Internet of Things) fields, which have emerged as the main trends in the computer technology field, will be cultivated.

■ Department of Software Engineering

Now the world is in a software supremacy struggle. It accounts for 52.4% of the automobile industry, 40.9% of the medical industry, and 51.4% of the warplane industry.

Korea was ranked 10th in the world economy due to a combination of basic industries such as automobile, steel, electronics, and software industries. However, as the demand for manpower in software development increases, the supply of highly-skilled people is insufficient. The majority of people working in the software industry are non-specialists.

Technologies and methods in developing and utilizing computer software are taught in software engineering. There are many departments for computer engineering in other universities, but there are only a few universities specializing in computer software. Software Engineering at Chonnam National University trains talented persons in combined software technology to lead the future information society. CNN Money announced the top 100 jobs in America, based on quality of life, and software designer was ranked at the top. Software designers are technicians developing and utilizing software, and making blueprints that are equivalent to those of an architect.

Microsoft, the leader in the global operation systems market; Apple, the leader in the intelligent mobile phones market with the iPhone; Google the dominant force in the information search market (and currently gaining a foothold in telecommunications); and Naver, leading the domestic information search market

are all prominent software companies.

These companies have also grown rapidly in recent times. Dear young people, full of passion and dreams, challenge yourselves and embrace the learning. Software engineering awaits you. Find your own Blue Ocean and become an important person in the infinity of cyberspace.

Machines like Smart phones enable us to access anything. Mobile phone operation systems such as Android, iOS, or Windows as well as game or utility apps, can be made and installed by you.

■ Professors

- Hyeongseok Lim, Ph.D.
  [Professor, hslim@jnu.ac.kr]
  (Algorithm)
- Deokjai Choi, Ph.D.
  [Professor, dchoi@jnu.ac.kr]
  (Computer Network)
- Hyukro Park, Ph.D.
  [Professor, hyukro@jnu.ac.kr]
  (Information Retrieval)
- Hyungjeong Yang, Ph.D.
  [Professor, hjyang@jnu.ac.kr]
  (Application Software)
- Kyungbaek Kim, Ph.D.
  [Professor, kyungbaekkim@jnu.ac.kr]
  (Distributed Network System)
- Kwanghoon Choi, Ph.D.
  [Professor, kwanghoon.choi@jnu.ac.kr]
  (Programing Language & Compiler)
- Heiyong Jeong, Ph.D.
  [Associate Professor, h.jeong@jnu.ac.kr]
  (Intelligent Robot Control & Signal Processing)
- Seokbong, Yoo, Ph.D.
  [Associate Professor, sbyoo@jnu.ac.kr]
  (Visual Intelligence, Image Processing)
- Yeongjun, Cho, Ph.D.
  [Assistant Professor, yj.cho@jnu.ac.kr]
  (Computer Vision)
- Soohyung Kim, Ph.D.
  [Professor, shkim@jnu.ac.kr]
  (Artificial Intelligence)
- Seungwon Kim, Ph.D.
  [Assistant Professor, Seungwon.Kim@jnu.ac.kr]
  (VR(Virtual Reality) / AR(Augmented Reality))
- Taejune Park, Ph.D.
  [Assistant Professor, taejune.park@jnu.ac.kr]
  (Information Security / Network Security)

■ Degree Requirements

Software Engineering undergraduate students are required to earn 140 credits including 12 credits from liberal arts education courses, 26 credits from MSC courses, 64 credits from CE compulsory courses & CE electives, and 38 credits from general electives.

■ What Do You Study?

Software Engineering Major Courses

▮ Core Courses

C Programming & Practice
Introduction of Engineering Design
Engineering Mathematics 1
Java Programming & Practice
Linear Algebra
Discrete Mathematics
Linear Algebra
Data Structures
Computer Architecture

Probability and Statistics
Data Base Systems
Theory of Software Engineering
Operating Systems
Career Exploration
Algorithm
Computer Networks
Software Engineering Integrated Project (Capstone Design)
Theory of Programming Languages

▮ Electives

Logic Circuits
Linux System
Software Engineering Basic Projects
C++ Programming & Practice
Object-oriented Design Project
Windows Programming Project
Data Communication
Problem Solving Project
Intelligent HCI
Computer Graphics
Network Programming
Database Design Project
Mobile Application Software
Industry-academic Cooperation Project (Capstone Design)
Web Programming & Practice
Embedded Software
Theory of Computation
Machine Learning
Digital Image Processing
Software Reverse Engineering
Artificial Intelligence
Intelligent ICT Convergence Seminar
Computer & Networks Security
Virtual Reality
Deep Learning
Distributed Systems
Compilers
Intelligent ICT Convergence Field Practice
Practical Software Projects 1
Practical Software Projects 2

■ Careers

Graduates of Software Engineering are actively working in various fields of society such as domestic companies, global software platform companies, and in public and venture companies as high-ranking civil servants or patent agents.

Otherwise, they continue their studies at graduate schools for masters or doctoral degrees and become professors at universities or leading researchers in many industrial institutes or laboratories headed by large domestic companies and national and public laboratories.

* Careers and Employment after Graduation

- **IT/SW development/game-related fields**: Social open markets (social commerce) such as Kakao Corporation, Naver (Line), eBay Korea, Coupang, Timon, WeMakprice, Netmarble, Gamevil Com2uS Corporation, Nexon, and N Media Platform, etc.

- **Public corporations and public institutions**: Korea Electric Power Exchange (KPX), Korea Electric Power Corporation (KEPCO), KEPCO KDN, KEPCO KPS, Internet & Security Agency (KISA), Korea Tobacco and Ginseng Corporation (KT&G), Korea East-West Power, Korea Southern Power, Incheon International Airport Corporation, KORAIL, Korea Hydro & Nuclear Power, Korea Information Society Agency, Forestry

Cooperative, etc.

- **Telecommunication/Broadcasting/Electronics**: SK Telecom, SK Broadband, KT, LG U+, Nuri Telecom, Lotte Data Communication Company, KBS, KBC, MBC, Samsung Electronics, LG Electronics, LG Display, LG Innotek, Doosan, Amkor Technology Korea, Korea Alps, etc.

- **Hospitals/public service/financial sector/media companies/accounting firms**: Computing department at university hospitals, public servants in IT fields, Kwangju Bank, Kookmin Bank, Nonghyup Bank, Maeil Economic Daily, EY (Ernst & Young Global Limited) Hanyoung, Customs Office (HTNS Customs Corporation), etc.

College of Engineering Sciences

Contact Information

Phone: +82-61-659-7205~7208, 6622
Fax: +82-61-659-7209
E-mail: richwj@jnu.ac.kr
URL: http://engc.jnu.ac.kr

- School of Electrical and Computer Engineering
  - Major in Electrical and Semiconductor Engineering
  - Major in Computer Engineering
- Department of Electronic Communication Engineering
- Department of Mechanical Design Engineering
- Department of Mechanical System Engineering
- Department of Mechatronics Engineering
- Department of Refrigeration and Air Conditioning Engineering
- Department of Marine and Civil Engineering
- Department of Environmental System Engineering
- Department of Integrative Biotechnology
- Department of Chemical and Biomolecular Engineering
- Department of Architecture
- Department of Biomedical Engneering
- School of Healthcare and Biomedical Engineering
- Department of Petrochemical Materials Engineering
- Department of Industrial Technology Convergence Engineering
- Affiliated Research Centers
  - Ocean Civil Engineering Research Center
  - Refrigerating Techniques Research Center
  - Chemical and Safety Engineering Research Center
  - Environmental Research Center
  - Innovation cener of education-Engineering

Electrical and Computer Engineering

Contact Information
Phone: +82-61-659-7310, 7250
Fax: +82-61-659-7319, 7259
E-mail: sng_j@jnu.ac.kr
URL: http://eec.jnu.ac.kr

What is Electrical and Computer Engineering?

In the school of Electrical Computer Engineering, advanced engineers are cultivated to develop and apply appropriate technologies. Every major in the school focuses on high-level technology, and there are interesting fields such as new generation mobile communications, computer communications, optical communication, servomechanism and electronic measurement, power electronics, semiconductor, power system, digital and computer circuit layout, computer graphics, design and application of embedded systems, artificial intelligence, computer program development, ubiquitous systems, and web application developing fields. To fulfill student expectations, there are several education programs, such as special education programs.

School of Electrical and Computer Engineering

In this school, education is supported by offering numerous scholarships and overseas training opportunities, as well as employment guidance and field experience.

Students are able to participate in many programs. In their first year of study, students are provided with a wide range of courses from basic to high technology education, and in their second year of study will decide a specific major (such as Computers and Electrical and Semiconductor Engineering). Students must study major theories, hardware and their experiments. These studies focus on both theory and practice, and students can apply skills acquired from these studies to future fields.

Professors

Major in Electrical and Semiconductor Engineering

- Nam-Sup Choi, Ph.D.
  [Professor, Power Electronics, nschoi@jnu.ac.kr]
- Buhm Lee, Ph.D.
  [Professor, Power Systems, buhmlee@jnu.ac.kr]
- Yang-Hee Joung, Ph.D.
  [Professor, Semiconductor Materials and Processes, jyanghee@jnu.ac.kr]
- Young-Chul Bae, Ph.D.
  [Professor, Chaos, Artificial Intelligence, Cyberphysical System (CPS), Instrumentation and Automation, ycbae@jnu.ac.kr]
- Kyoung-Min Kim, Ph.D.
  [Professor, Image/signaling and computer vision, system automation, kkm@jnu.ac.kr]
- Seong-Jun Kang, Ph.D.
  [Professor, Functional Materials and Devices, VLSI Process, ferroksj@jnu.ac.kr]

Major in Computer Engineering

- Kang-Chul Kim, Ph.D.
  [Professor, VLSI Design and Embedded Systems, kkc@jnu.ac.kr]
- Chang-Gyoon Lim, Ph.D.
  [Professor, Artificial Intelligence, cglim@jnu.ac.kr]
- Gwang-Jun Kim, Ph.D.
  [Associate Professor, Computer Communication, kgj@jnu.ac.kr]
- Tai-Hoon Kim, Ph.D.
  [Professor, Cyber Security, taihoonn@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits, with 27 credits from electives (15 credits from cultural studies courses) and 82 credits from department courses (32 credits from core courses).

■ What Do You Study?

Major in Electrical and Semiconductor Engineering

▮ Core Courses

Living English 1
Mathematics 1
Mathematics 2
General Physics 1
Electrical Engineering Basic Lab
Electromagnetics 1
Electromagnetics 2
Circuit Theory 1
Circuit Theory 2
Solid State Electronic Device Engineering 1
Robot Engineering
Automatic Control 1
Electric Machinery 1
Power Engineering 1
Electronic Circuit 1

▮ Electives

Introduction to Electrical and Semiconductor Engineering
Engineering Mathematics
Digital Circuit Design 1
Digital Circuit Design 2
Semiconductor Engineering
Applied Computer
Programming Language
Advanced Engineering Mathematics
Digital Circuit Lab
Introduction Capstone Design
Solid State Electronic Device Engineering 2
Artificial Intelligence
Automatic Control 2
Electric Machinery 2
Electric Energy Conversion Engineering
Power Engineering 2
Electronic Circuit 2
Microelectronics Design and Lab
Field Practice (Electrical and Semiconductor)
Field Practice 1 (Electrical and Semiconductor)
Field Practice 2 (Electrical and Semiconductor)
Field Practice 3 (Electrical and Semiconductor)
VLSI Process 1
VLSI Process 2
Signals and System Engineering
Applied Power Electronics
Experience Intern
Experience Intern 1
Experience Intern 2
Electrical Machinery and Lab
Power Systems
Electronic Display Engineering

Control system Design
Digital Signal Processing
Microprocessor and Lab
Electrical Engineering Materials
Physical Electronics
Instrumentand Lab
Soft computing
Creative Engineering Design 1 (Capstone Design)
Creative Engineering Design 2 (Capstone Design)

Major in Computer Engineering

▮ Core Courses

Living English 1
Mathematics 1
Introduction of Artificial Intelligence
Database Management
Introduction to Embedded Hardware
Design of Computer Architecture & Practice1
Network and Socket Programming Actual Training
Software Engineering
Embedded Programming
Computer Graphics
Design of Microprocessor Applications & Practice
Data and Computer Communication
Digital Circuits Design & Practice
Python Programming
Big Data Analysis and Lab
Algorithms
Operating System
Design of Computer Architecture & Practice 2
Field Practice1
Machine Learning
Image Processing
Operating System Design and Practice
Embedded System
Capstone Design 1
Field Practice
Application of Machine Learning
Multimedia System
Mobile Programming application
Parallel Computer Architecture and Programming and Practice
Capstone Design 2
Introduction to R data analysis

▮ Electives

C language Programming and Practice
Game Programming & Practice 1
Introduction to Data Science and Lab
Data Structures & Practice
Discrete Mathematics
Computer Network
Computer programming I
Game Programming & Practice 2
Engineering Mathematics

■ Careers

Graduates tend to advance to positions in domestic and foreign graduate schools, educational organizations (middle schools), government and public offices, broadcasting fields, communication enterprises, computer network industries, information investment organizations, semiconductor companies, electronic companies, semiconductor device research organizations, Bio-metric System companies, CCTV companies, security maintenance companies, Korean Electric Power, Korean Water Resources, nuclear power generation fields, game planning fields, game graphic design fields, game programming production fields, character design fields, advertisement design fields, game graphic fields, web design fields, H/W fields, venture foundation, and other related fields.

Electronic Communication Engineering

Contact Information
Phone: +82-61-659-7230
E-mail: llubin@jnu.ac.kr
URL: https://ece.jnu.ac.kr

What is Electronic Communication Engineering?

Electronics and communications engineering is a broad field of engineering that includes electrical and electronics, hardware and software, covering a wide range of topics ranging from basic studies to applications.

There are artificial intelligence (AI), wireless communication (5G, 6G), Internet of Things (IoT), big data, embedded systems, microwave and antenna engineering, integrated circuit design, voice recognition and signal processing, and automatic control. This is the ICT technology that is the basis of the Fourth Industrial Revolution.

There is a need for a large number of talent to lead the 6th generation mobile communication technology worldwide.

Department of Electronic Communication Engineering at CNU

Chonnam National University's Department of Electronics and Telecommunications Engineering was established in 1971 and operates bachelor's, master's, and doctoral programs.

This place offers a pleasant educational environment and various experimental practices, and a wide range of major education allows you to obtain certificates in adjacent fields and employ various related jobs. Student education is provided with the following educational goals.

1. Cultivate engineers with creativity to research and develop a wide range of advanced applications
2. Computer simulation training fosters various circuit interpretation and design skills
3. Training professional engineers who will play a pivotal role in the globalization and information age
4. Training excellent engineers with creativity to lead the era of the 4th Industrial Revolution

Professors

- Ki-Ryang Cho, Ph.D.
  [Professor, Optimization, krcho@jnu.ac.kr]
- Seung-Yeop Rhee, Ph.D.
  [Professor, Microwave Engineering, ysrsy@jnu.ac.kr]
- Dae-Ik Kim, Ph.D.
  [Professor, Integrated Circuit Design, daeik@jnu.ac.kr]
- Han-Seung Jang, Ph.D.
  [Associate Professor, IoT & Machine-to-Machine Communications, Smart Grid, hsjang@jnu.ac.kr]

■ Degree Requirements

Students are required to earn at least 140 credit (99 from Department courses and 41 from electives), which normally takes four years of full-time study, and pass foreign language qualifying exams or a dissertation.

■ What Do You Study?

▮ Core Courses

Basic English
English for Global Communication 1
Electro-Magnetics
Optimization Programming
Communication Theory
Digital System Design
Communication Circuit Design & Experiments 1

▮ Electives

Electronic Communication Introduction
Software Programming Basics & Practice
Engineering Mathematics
Basic Circuit Experiment
Linear Algebra
Circuit Theory
Basic Microprocessor
Digital Engineering
Big Data Processing
Numerical Analysis and Laboratory
Applied Engineering Mathematics
Radio Engineering
Artificial Intelligence and Machine Learning
Electromagnetic Field
Electronic Circuit Experiments 1
Computer Communications
Internet of Things and Autonomous Driving
Signal Processing
Electronic Circuit Experiments 2
Creative Engineering Design(Capstone Design)
Microwave Engineering
Smart Factory
Antenna Engineering
Acoustic Engineering
Complete Design for Creative Engineering (Capstone design)
Sensor Engineering
RF Circuit Design

■ Careers

Graduates tend to advance to positions in domestic and foreign graduate schools, government and public offices, broadcasting fields, communication enterprises, computer network industries, information investment organizations, semiconductor companies, electronic companies, semiconductor device research organizations, Korean Electric Power, Korean Water Resources, nuclear power generation fields, and other related fields.

Department of Mechanical Design Engineering

Contact Information
Tel: +82-61-659-7280
E-mail: dbstjd0504@jnu.ac.kr
URL: http://mechauto.jnu.ac.kr/

■ Department of Mechanical Design Engineering at Chonnam National University

This department focuses on fostering creative and specialized mechanical design engineers necessary for the overall industry (machinery, automobile, aerospace, construction, chemistry, refrigeration, etc.) through various theoretical education, experiments, and practice.

To this end, mathematics and computer learning are emphasized as basic subjects, and material mechanics, fluid mechanics, thermodynamics, and dynamics, which are basic subjects of mechanical design engineering, are learned. It learns various application subjects such as sensor and measurement engineering, mechanical design, fluid machinery, heat transfer, thermal fluid flow, automatic control, vibration, robotics, renewable energy, etc.

It also focuses on developing simulation and mechanical design skills using computers by expanding the use of comprehensive design and analysis software (CAD/CAE programs).

■ Professors

- Sang-Kyoo Park, Ph.D.
  [Professor, Fluid Engineering and Turbulence, psk@jnu.ac.kr]
- Young-Wann Kim, Ph.D.
  [Professor, Mechanical Design and Mechanics of Composite Materials, wannkim@jnu.ac.kr]
- Ki-Seong Kim, Ph.D.
  [Professor, Heat and ParticleImaging Velocimeter, sngkim@jnu.ac.kr]
- Seung-Uk Ko, Ph.D.
  [Professor, Dynamics Control and Biomedical, kos2@jnu.ac.kr]
- Sang-Hun Kim, Ph.D.
  [Assistant Professor, Applied solid dynamics, shkim83@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

■ What Do You Study?

▮ Core Courses

Statics
Thermodynamics 1
Fluid Mechanics 1

Mechanics of Materials 1
Dynamics
Mechanical Design
Automatic Control
Energy Conversion Engineering
Fluid Machinery
Captone Design 1

Electives

Engineering Mathematics
Introduction to Electrical Engineering
Materials in Mechanical Engineering
Mechanical Element Drawing
Thermodynamics 2
Fluid Mechanics 2
Mechanics of Materials 2
Sensor and Experiment Engineering
Heat Transfer
Artificial Intelligence
Field Training1
Mechanical Vibration
Robot Engineering
Design Optimization
Field Practice 2
Comprehensive design using CAD
Internal Combustion Engine
Mechatronics & Practice
Hydraulic Engineering
Computational Mechanical Design
Field Practice
Field Practice 3
Renewable Energy
Fluid thermodynamics and Practice
Captone Design 2
Field Practice

Careers

Graduates are able to pursue careers in engineering, electronics, automobile, and construction firms. They may also enroll in graduate programs in the field of mechanical design engineering.

Graduates may be qualified to work as heavy industry employees, technical public officials, and government officers.

Department of Mechanical System Engineering

Contact Information
Tel: +82-61-659-7220
Fax: +82-61-659-7229
E-mail: dj3220@jnu.ac.kr
URL: https://mechse.jnu.ac.kr

What is Mechanical System Engineering?

The Department of Mechanical Systems Engineering is a place to learn the "mechanical engineering" required by machinery, metals, shipbuilding and plants to suit the characteristics of the national industrial complex in Gwangyang Bay. Based on mechanical engineering, education is provided faithful to basic mechanical engineering studies such as the relationship between motion and force, energy conversion, and material flow control, and current adaptive mechanical engineering studies necessary for design processing. Through this, it operates curricula and comparative courses aimed at fostering talents who can play a pivotal role in mechanical engineering at industrial sites and research institutes and creatively solve problems in future high-tech industries.

The curriculum is designed to combine theoretical and practical skills through basic mechanics, computer-aided design (CAD), laboratory / laboratory and capstone design, field practice, and mechanical engineering projects. In addition, various comparative courses are conducted to nurture engineers who have a sense of professional ethics, cooperative ability, and sound personality as members of the industrial society.

Professors

- Kyung-Jo Park, Ph.D.
  [Professor, Dynamics and Vibration, kjpark40@jnu.ac.kr]
- Chung-Youb Kim, Ph.D.
  [Professor, Solid Mechanics, kimcy@jnu.ac.kr]
- Hei-Cheon Yang, Ph.D.
  [Professor, Thermal and Fluid Engineering, hcyang@jnu.ac.kr]
- Hoon Kim, Ph.D.
  [Professor, Mechanics Control and Measurements, khoon97@jnu.ac.kr]
- Bong-Ho Moon, Ph.D.
  [Professor, Tribology, mbh@jnu.ac.kr]

Degree Requirements

Students are required to earn 140 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

What Do You Study?

Core Courses

English for Global Communication 1
Mathematics 1
General Physics 1
General Physics 2
Statics mechanics
Thermodynamics 1
Fluid Mechanics 1
Mechanics of Materials 1
Mechanical Element Drawing
Dynamics
Introduction to Electrical and Electronic Engineering
Machine Tools Act 1
Automatic control
Design Of Machine Elements 1

Electives

Kinematics of Mechanisms
Mechanical Design and Drawing
Material Mechanics 2
Hydrodynamics 2
Thermodynamics 2
Programming and Practice
Measurement engineering
Heat and substance transfer and practice
Rigid Dynamics and Practice
Capstone Design Lab1
Welding engineering and practice
Machine Tools Act 2
Field training 1
Non-destructive inspection engineering
Mechanical materials
Next Generation Transport System
Sensors and the Internet of Things
CAD 3D
Vibration engineering
Field training 2
Capstone Design Lab2
precision processing
Vehicle dynamics
Energy air conditioning system
Field training 3
Capstone Design Lab3
Mechatronics System
Mechanical design and practice
Safety engineering
Structural analysis
Noise engineering
Field training 4
Capstone Design Lab4
Mechanical System Design Lab
Energy conversion system

Careers

Graduates are able to pursue careers in engineering, electronics, automobile, and construction firms. They may also enroll in graduate programs in the field of mechanical systems engineering.

Graduates may be qualified to work as heavy industry employees, technical public officials, and government officers.

Department of Mechatronics Engineering

Contact Information
Tel: +82-61-659-7710, 7380
E-mail: rhwl58@jnu.ac.kr
URL: https://mechatronics.jnu.ac.kr

What is Mechatronics Engineering?

The Department of Mechatronics Engineering learns mechanical engineering and electronic engineering technology, a compound word of machine mechanics and electronics, and develops or operates automated systems by fusion of engineering knowledge such as machinery, electronics, ICT, computers, control engineering, intelligent robots, and smart plants. As a department with an educational goal of nurturing experts in.

That is, micro-system design and control technology, micro-mechatronics, which is a microsystem field of micro sensors and actuators, biomechatronics, a convergence field of robotics and neuroscience, including biology, mechanical engineering, and electronic engineering, detects the surrounding environment and detects the external environment. It trains intelligent robots that interact with and perform tasks by changing their behavior accordingly.

In addition, according to the Yeosu National Industrial Complex, basic knowledge related to smart plants made by the convergence of information and communication technology (ICT) is educated, and the goal is to nurture and produce competent manpower leading the cutting-edge field in the era of the 4th industrial revolution.

Professors

- Kang Chung, Ph.D.
  [Professor, Noise and Vibration Engineering, Numerical Analysis and Structural Vibration, ckang@jnu.ac.kr]
- Yang-kyu Park, Ph.D.
  [Associate Professor, Micro actuator & sensor, yangkyu.park@jnu.ac.kr]

Degree Requirements

Students are required to earn 140 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

What Do You Study?

Introduction to Static Dynamics

Introduction to Dynamics

Introduction to Mechatronics
Visual Programming
Applied Engineering Mathematics
Mechanics of Materials
Electrical equipment
Introduction to Electrical and Electronic Engineering
Instrumentation Sensor Engineering
Manufacturing Processes
Mechanical metal materials
Microprocessor
Introduction to Semiconductor Engineering
Electronic circuit and practice
Machine Element of Design
Mechanical System Design Lab1
Biomechatronic introduction
Biomechanics
Numerical Analysis
Artificial intelligence
Robot control ai
Kinematics of Mechanisms
Electromechanical Engineering Experiment
Mechanical System Design Lab2
Digital Circuit Engineering
Robotics
Machine learning
Actuator Engineering
Field Training1
Mechanical system
Mechanical Capstone Design 1
Micro Electromechanical System
Embedded System Design
Autonomous driving system
Vibration Engineering
Field Training2
Mechanical Capstone Design 2
Bio-robotics
Production System Design
Intelligent Robot Experiment
Computer vision
CAD and Practice

■ Careers

Graduates are able to pursue careers in engineering, electronics, automobile, and construction firms. They may also enroll in graduate programs in the field of mechanical engineering.

Graduates may be qualified to work as heavy industry employees, technical public officials, and government officers.

Department of Refrigeration and Air-Conditioning Engineering

Contact Information
Tel: +82-61-659-7270
Fax: +82-61-659-7279
E-mail: refaircon@jnu.ac.kr
URL: http://refri06.jnu.ac.kr

What is Refrigeration and Air Conditioning Engineering?

The Department of Refrigeration Engineering was established in 1988, and was then reorganized as the Department of Refrigeration and Air Conditioning in 2007. Refrigeration and Air Conditioning Engineering studies have become essential to achieving energy efficiency and product optimization. The range of applications includes computer and electronic cooling systems, medical processes and equipment, semiconductor and microprocessor fabrication, and power and energy industries.

Refrigeration engineering plays an important role in manufacturing and production processes, including food preservation technologies (processing, freezing, storage and transportation), to provide sufficient quantities to feed the growing population. Air Conditioning Engineering has been applied to provide and maintain controlled environments in buildings such as offices, houses, and factories (Korea leads the world in small air conditioner exports), as well as other large structures, such as tunnels. In the aviation fields, its application includes human-occupied spaces, aircraft equipment operation, satellites, and space stations. It is also present in manufacturing and fabrication technologies and within pharmaceutical processes to provide controlled atmosphere conditions. The Refrigeration and Air Conditioning industries are developing technical know-how to support the increasing rate of growth in Korea.

The Department of Refrigeration and Air Conditioning Engineering perseveres in its efforts to improve its curriculum and educational environment which international students are also able to study. The Department offers a variety of scholarships to international and domestic students.

School of Department of Refrigeration and Air Conditioning at Chonnam National University

The educational goal of the Department of Refrigeration and Air Conditioning Engineering is to cultivate talented thinkers who develop ideas in these fields of engineering. The faculty members teach and train international and domestic students in the design of refrigeration and air conditioning systems, the design of refrigeration plants including chemical processes and food storages, design of energy-saving machines and mechanical systems including heat exchangers, effective use of energy including natural and unused energy, and fundamental theoretical applications of engineering. The Department offers students the best conditions in relation to their study and discipline and life on campus.

The Department aims to cultivate engineers and researchers who are able to contribute to the national

development of science, engineering, and industry in the field of refrigeration and air conditioning and other related fields upon graduation.

■ Professors

- Min-Young Kim, Ph.D.
  [Professor, Food Refrigeration Engineering, kmy@jnu.ac.kr]
- Ki-Won Park, Ph.D.
  [Professor, Air Conditioning Engineering, pkw@jnu.ac.kr]
- Young-Woo Shin, Ph.D.
  [Professor, Mechanical Engineering, (Material Forming), shin5381@jnu.ac.kr]

■ Degree Requirements

The Department prepares students to meet the challenges of new ideas and technical developments in their professional fields. Students are required to earn 140 credits, with 66 credits from core courses and 28 credits from electives over a 4-year period.

Assessment is generally made based on results from exams, homework, and lab assignments.

■ What Do You Study?

Programming
Differential Equations
Fluid Mechanics
Thermodynamics
Electrical Engineering
Refrigeration and Cooling
Differential Mechanics
Heat Transfer
Mechanics of Materials
Physical Chemistry
Electronic Engineering
Fluid Mechanical
Food Freezing Theory
Mechanical Drawing
Air Conditioning Engineering
Machine Element Design
Sanitary Engineering
Design of Air Conditioning Equipment
District Heating and Cooling
Energy Utilizing Engineering
Design of Sanitary Equipment
Refrigeration Engineering
Food Freezing
Refrigeration and Air Conditioning
System Control
Pipe Engineering
Manufacturing Process of Machines
Design of Refrigeration Machinery and Heat Exchanger
Air Conditioning Equipment
Principle of Refrigeration and Air-Conditioning Equipment
Principle of Refrigeration and Air-Conditioning
Low Temperature Physics
Exercises of Refrigeration and Air-Conditioning
Design of Refrigeration Equipment
Cold Chain and Equipment
CAD/CAM
Ultra Cryogenic Engineering
Design of Thermal Systems

Careers

Graduates may seek careers both in Korea and overseas, in engineering firms, construction companies, industrial refrigeration firms, marine and transportation refrigeration companies, public enterprises, automobile firms, and in the civil service.

Marine and Civil Engineering

Contact Information
Phone: +82-61-659-7240
Fax: +82-61-659-7329
E-mail: hozilla@jnu.ac.kr
URL: http://oce.jnu.ac.kr

What is Marine and Civil Engineering?

Civil engineering serves the planning, design and construction of infrastructure, including paths and roads, harbors, airports, bridges, tunnels, power plants, dams and water supply, drainage, and public transportation systems. Traditionally, civil engineering includes the following studies: structural, hydraulic and water resource engineering, geotechnics, surveying, construction materials, transportation, and construction management.

Marine and civil engineering involves the planning and preservation of oceans, the training of interdisciplinary engineers in the field of oceanography, as well as the classical fields of civil engineering. Marine and civil engineering is required in the construction of ocean support structures and IT-related functions.

Professors

- Jae-min Kim, Ph.D.
  [Professor, Structural Engineering, jm4kim@jnu.ac.kr
- Dae-hyon Kim, Ph.D.
  [Professor, Highway and Traffic Engineering, daehyon@jnu.ac.kr
- Jung-won Huh, Ph.D.
  [Professor, Structural Reliability Engineering,jwonhuh@jnu.ac.kr]
- Young-sang Kim, Ph.D.
  [Professor, Geotechnical Engineering, geoyskim@jnu.ac.kr]
- Dong-yeob Han, Ph.D.
  [Associate Professor, Geomatics Engineering, hozilla@jnu.ac.kr]
- Jong-in Lee, Ph.D.
  [Professor, Coastal and Harbor Engineering, jilee@jnu.ac.kr]
- Chang-ho Lee, Ph.D.
  [Assistant Professor, Geotechnical Engineering, changho@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

Core Courses

Introduction to Marine Civil Engineering and Engineering Ethics
Mechanics of Materials and Lab
Surveying and Practice
Structural Mechanics and Lab
Elementary Fluid Mechanics
Soil Mechanics and Lab 1

Hydraulics and Lab 1
Creative Design in Civil Engineering 1
Design of Reinforced Concrete Structure 1
Creative Design in Civil Engineering 2
Civil Engineering Construction
Coastal Hydraulics and Lab

▮ Electives

Engineering Mechanics
Civil Engineering Drawing
Civil Engineering Materials and Lab
Engineering Mathematics
Ocean Surveying and Field Training
Transportation Engineering
Computational Structural Engineering
Soil Mechanics and Lab 2
Design of Steel Structures
Foundation Engineering
Highway Engineering
Hydraulics and Lab 2
Design of Reinforced Concrete Structure 2
Ocean Hydraulics and Experiment
Water Supply and Sewage Engineering
Intelligent Transportation Systems
Surveying Practice
Geology Engineering
Pre-stressed Concrete Structures
Bridge Structure Design
Transportation Facilities Design
Reclamation and Dredging Engineering
Disaster Prevention Engineering
Hydrology and River Engineering
Harbor Engineering
Design Practice for Coastal Structure
Ocean Civil Engineering Construction
Water Resource Design
Rock Mechanics
Remote Surveying
Introduction to Finite Element Method
Design for Soil Structures
Design Practice for Port and Harbor Structure
Offshore Structural Engineering

Students are required to earn 130 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

■ What Do You Study?

Structural Engineering

Geotechnics

Transportation Engineering/Surveying

Hydraulics/Ocean Hydraulics/Harbor Engineering

■ Careers

Graduates currently play active roles in central and local government organizations (e.g., Ministry of Construction and Transportation, Ministry of Environment), public corporations (Korea Water Resources Corporation, Korea Land Corporation, Korea Highway Corporation), and research institutes (e.g., Korea Institute of Construction Technology). Private companies and corporations dealing with bridges, harbors, roads, and dams require the expertise of environmental engineers. Some graduates go on to graduate school to further specialize in their disciplines in the field of civil engineering.

Environmental System Engineering

Contact Information
Phone: +82-61-659-7260
Fax: +82-61-659-7269
E-mail: tmd1029@jnu.ac.kr
URL: http://environ.jnu.ac.kr

Introduction of Environmental System Engineering

Environmental System Engineering provides the solution for the environmental problems such as water and air pollution, waste disposal, and public health issues. Environmental system engineers have knowledge of advanced principles of multidisciplinary engineering, biology, chemistry, and environmental science to protect wildlife and natural resources as well as human life. The important role of environmental system engineers is to support the optimal ways for obtaining safe drinking water, the treatment of wastes, air quality maintenance, water pollution control and remediation of contaminated sites by disposal of hazardous substances. In addition, environmental system engineers can inspect and evaluate industrial and municipal facilities and programs to assess their compliance with environmental regulations. Environmental system engineers can work with environmental scientists, planners, hazardous waste technicians, engineers, and other specialists to address environmental problems in industrial and academic fields.

Professors

- Byeong Cheon Paik, Ph.D.
  [Professor, Water and Wastewater Treatment System, bpaik@jnu.ac.kr]
- Seong Gyu Seo, Ph.D.
  [Professor, Air Pollution Control Engineering, sseo@jnu.ac.kr]
- Eun Sik Kim, Ph.D.
  [Professor, Environmental Materials and Membrane Water Treatment, eskim@jnu.ac.kr]
- Min Jin Hwang, Ph.D.
  [Associate Professor, Industrial Environmental engineering, vip7080@jnu.ac.kr]
- Seong Yun Kim, Ph.D.
  [Assistant Professor, Water Quality engineering, seongyun.kim@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years. Students on average earn 18 credits per semester.

Curriculum

Mandatory Courses

Hydraulics
Air Pollution Engineering
Water and Wastewater Treatment Engineering I

Environmental Microbiology and Lab
Solid Waste Engineering II
Environmental System Engineering and Design

▮ Selective Courses

Introduction to Environmental Engineering
Unit Operation of Water and Wastewater Treatment
Environmental and Fundamental Lab I
Physical Chemistry for Environmental Engineers
Applied Mathematics for Environmental Engineers
Micrometeorology
Analytical Chemistry and Lab
Hydrology
Solid Waste Engineering I
Environmental and Fundamental Lab II
Air Pollution Management
Air Pollution Treatment and Lab
Planning and Design of Water Supply and Sewerage System
Water Quality Management and Lab
Water and Wastewater Treatment Engineering II
Instrumental Analytical Methods
Water Supply and Sewage Engineering
Water Quality Engineering Practice Ⅰ
Design of Water and Wastewater Treatment Plant and Lab
Water Treatment Engineering
Solid Waste Management and Lab
Environmental Chemistry
Air Pollution Engineering Practice I
Water Quality Engineering Practice II
Solid Waste Engineering Practice
Marine Pollution
Legislation for Environmental Protection
Air Pollution Engineering Practice II
Water Quality Engineering Practice III
Environmental Safety Engineering
Environmental Impact Assessment
Environmental Project Lab
Resources recycling

■ Future Careers

Environmental engineers find careers in many places, such as the following:

- Environmental engineers find careers in many places, such as the following:
- Engineering consulting firms that design and construct air and water pollution control systems
- Industries that need to treat their air or wastewater discharges
- Private and municipal agencies that supply drinking water
- Companies that treat and dispose of hazardous chemicals
- Companies that operate treatment facilities for municipalities or industries
- Government agencies that monitor and regulate waste discharges
- Universities that teach and conduct research on environmental control
- Private and government laboratories that develop the new generations of pollution control systems
- International agencies that transfer knowledge and technology to the developing world
- Public interest groups that advocate environmental protection

Department of Integrative Biotechnology

Contact Information
Tel: +82-61-659-7300
Fax: +82-61-659-7309
E-mail: mpo92@jnu.ac.kr
URL: http://biotech.jnu.ac.kr

What is Department of Biotechnology?

Biotechnology is a broad term that applies to all practical uses of living organisms containing plants, animals, and microorganisms, as well as biological processes created for human benefit. For example, biotechnology is used to produce some valuable foods, pharmaceuticals, tests for diseases, and waste removal. It has made rapid progress over the last quarter of the 20th century. Much of this success is due to the expectation that the development of new technologies can produce various compounds beneficial to the daily lives of human beings and preserve environmental health. It utilizes the sciences of biology, chemistry, physics, engineering, computers, and information technology to develop tools and products that hold great promise and interest.

The Department of Integrative Biotechnology combines new biotechnology and other technologies in all areas of the pharmaceutical, bio, AI (Artificial Intelligence) big data-based digital pharmaceutical industry and stem cell and biomaterials.

Department of Biotechnology

This department has a vision to be a viable target for students who wish to pursue a degree program in bio-technology, and to undertake and produce research at an international standard.

The department contributes to several undergraduate and graduate programs. The teaching activities in the department are well-supported by dedicated faculty members, responsible for a large number of courses. More specific descriptions can be found online.

Professors

- Jin-Man Kim, Ph.D.
  [Professor, Molecular Biology, jinmank@jnu.ac.kr]
- Seung-Hwan Yang, Ph D.
  [Associate Professor, cell technology, ymichigan@chonnam.ac.kr]
- Byoung-San Moon Ph D.
  [Associate Professor, Stem cell engineering, bsmoon@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, and pass qualifying exams or a dissertation.

■ What Do You Study?

▮ Core Courses

Writing
Global English

▮ Biotechnology Major Courses

Microbiology 1
Genetics
Biochemistry 1
Bioindustry 1
Molecular Biology 1

▮ Electives

Bioindustry 2
Food Biotechnology Lab.
Study for Functional capacity of useful materials
Study of Antioxidants
Industrial Microbiology & Lab.
Food Biotechnology 1
Medical Resources
Cell Culture Engineering and Lab
Microbial engineering Lab.
Selected Topics in Biotechnology
Life Pharmaceutics
Biotechnology Information and Patent
Microbial Engineering 2
Microbiology 2
Microbiology Lab
Molecular biology and biotechnology
Stem Cell Engineering
Cell Biology
Molecular Biology 2
Enzymology
Cancer Biology
Neurobiology
Bioenergy Technology
Biochemistry 2
Organic Chemistry 1
Organic Chemistry 2
Fermentation Technology
Genetic Engineering
Microbial Engineering 1
Cell Signaling

■ Careers

Graduates may pursue careers in public or private research institutes, biotech companies, graduate or medical schools, and chemical plants.

Department of Chemical and Biomolecular Engineering

Contact Information
Tel: +82-61-659-7290
Fax: +82-61-659-7299
E-mail: jhb7025@jnu.ac.kr
URL: http://chemeng.jnu.ac.kr

What is Chemical and Biomolecular Engineering?

The Chemical and Biomolecular Engineering involves the study and research for the development, design, operation and management of chemical, physical, and bio-processes to provide necessary materials, which are required in cultural living of humans from natural and bio-resources. The integration of chemical and biomolecular engineering fields is a new research field reflecting the trend of fusion technologies in the advanced 21st century. Conventional chemical and biomolecular engineering deal with crude oil processing, fabrication of plastic and synthetic fibers, synthetic rubber, the separation of gases from air, environmental problems, fertilizers and foods, isolation of isotopes and development of medicines and antibiotics; these studies provide us a wealthier and more comfortable life. The chemical and biomolecular engineering takes a major role in leading the future development through nanotechnology, biotechnology, information technology, energy/environmental technology, as well as the fusion of all these technologies. The study will open the way to substantiate the future technologies in our actual human beings.

Department of Chemical and Biomolecular Engineering

The Department of Chemical and Engineering has the educational aim to provide knowledge about the manufacturing processes of bio-chemical products and operations for the conversion of raw materials into final products, as well as to cultivate creativity and a challenging spirit toward new things. To reach this goal, the department presents a curriculum that centers on teaching the basics in chemistry, physics, and biochemistry, which form the basis of natural science and on helping students to experiment and practice. The spectrum of research and educational opportunities in our department also includes biomolecular engineering, biochemical engineering, environmental engineering, chemical reaction engineering, particle technology, electrochemical engineering, semiconductor processing, and polymer and material engineering. The department has produced engineers who have greatly contributed to the nation's industrial development as sophisticated experts in inorganic and organic industrial fields including petrochemicals, fertilizers, acid-alkali, rubber, synthetic fibers, biosensors, fine chemicals, ceramics and fine polymers.

Professors

- Youn-Sop Kim, Ph.D. [Professor, Polymer Chemistry, yskim1@jnu.ac.kr]
- Ho-Joon Seo, Ph.D.

[Professor, Catalytic Reaction Engineering, hjseo@jnu.ac.kr]

- Hun-Soo Byun, Ph.D.
  [Professor, Thermodynamics and Separation Processes, hsbyun@jnu.ac.kr]
- Soon-Do Yoon, Ph.D.
  [Professor, Process and Control of Chemical Engineering Materials, yunsd03@jnu.ac.kr]
- Heon-Ho Jeong, Ph.D.
  [Associate Professor, Bio-application Engineering, jeonghh29@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits, and pass qualifying exams or a dissertation

■ What Do You Study?

▮ Core Courses

Physical Chemistry 1
Chemical Process Calculation 1
Chemical Engineering Thermodynamics 1
Chemical Engineering Lab 1
Chemical Engineering Lab 2
Chemical Engineering Lab 3
An Introduction to Industrial Chemistry

▮ Electives

Polymer Chemistry
Polymer Materials
Chemical Engineering Fluid Mechanics
Chemical Process Calculation 2
Engineering Mathematics 1
Engineering Mathematics 2
Inorganic Chemistry
Physical Chemistry 2
Organic Chemistry 1
Organic Chemistry 2
Inorganic Material Design
Chemical Reaction Engineering 1
Chemical Reaction Engineering 2
Chemical Engineering Thermodynamics 2
Chemical Plant Design
Chemical Engineering Unit Operation 1
Chemical Engineering Unit Operation 2
Petro Chemical Engineering
Computer Calculation in Chemical Engineering
Chemical Safety Engineering
Transport Phenomenon
Biopolymer
Properties of Polymer
Energetics Seminar
Basic Design of Chemical Engineering
Recent fusion technology and understanding
Chemical Plant Design
Process Dynamics and Control
Process Systems Analysis and Control
Computer Program and Practice of Chemical Engineering
Environmental Chemical Engineering(Project Lab1)
Analytical Chemistry 1
Bioprocess engineering
Biological Chemistry
Bioprocess Engineering
Organic Synthesis Engineering(Capstone Design)
ProjectLab2

■ Careers

Graduates may pursue careers in public or private research institutes, biotech companies, graduate or medical schools, and chemical plants.

Department of Architecture

Contact Information
Tel: +82-61-659-7330
Fax: +82-61-659-7339
E-mail: msg3457@jnu.ac.kr
URL: http://adcnu.jnu.ac.kr/

What is Architecture?

The Department of Architecture aims to understand the basis of architectural development considering the background of architecture's comprehensive character, rapid innovation of technology, and recognition of various cultures and values. The department cultivates students' abilities to think critically and comprehensively. In addition, students are encouraged to understand nature, society, and technology through studies in architecture.

Dept. of Architecture at Chonnam National University

The educational goal of the Department of Architectural Design is to "cultivate creative architects who contribute to the sustainability of society" in connection with the educational goals of Chonnam National University.

In other words, the goal is to cultivate architects with integrated problem-solving skills that combine convergent thinking and creativity based on architectural expertise by training architects with practical skills and expertise as well as experts who will contribute to the sustainability of local communities such as culture and nature.

Students in the Department of Architectural Design will become experts in the design and construction of buildings and will have strategic thinking in dealing with the problems of the construction environment. Furthermore, you will learn the leadership you can show in your society.

In order to achieve the basic educational goal of fostering architects who contribute to the sustainability of society by combining practical skills and cultural knowledge with convergent thinking and creative skills based on architectural expertise, the department intends to produce as follows.

- Architect who practices roles and responsibilities in a sustainable society - Public Good Keeper
- Architect with Analytical Thinking and Creative Problem Solving – Analytical Designer
- Architect to understand and value local culture, resources and environment – Culture Coordinator

Professors

- Hyun-tae Kim, Ph.D.
  [Professor, Architectural Planning and Design, htkim@jnu.ac.kr]
- Joo-seong Jeong, Ph.D.
  [Professor, Architectural Planning and Design, jsjeong@jnu.ac.kr]
- Kum-ho Chung, Ph.D.
  [Professor, Architectural Planning and Design, kumho@jnu.ac.kr]
- Jun Taek Kim, Ph.D.

[Professor, Architectural Design and urban Design, juntaek.kim@jnu..ac.kr]

- seungwan LIM
  [Professor, High Performance Design Lab, swl.gonsw@jnu..ac.kr]
- Jaehoon BAE
  [Professor, Steel Structures, Seismic design, skycity-bjh@jnu..ac.kr]
- sunhyung KIM
  [Professor, Architectural Planning, sunhyung.kim@chonnam.ac.kr]

■ Degree Requirements

Students are required to earn 160 credits, normally over a period of 5 years. Students on average earn 18 credits per semester.

■ What Do You Study?

Introduction to Architecture
Architectural Design 1
Architecture Expression
Career Plan and Self Understanding
Architectural Design 2
Introduction to Building Structure
Digital Design 1
Architectural Design 3
Environmental Technology
Digital Design 2
History of Western Architecture
Structural Analysis
Architectural Design 4
Theory of behavior in architecture & Barrierfree Space
History of Korean Architecture
Architecture & Society
Architectural Design 5
Architectural Equipment
English for Architectural Practical
Building Materials
Architectural Design 6
History of Modern Architecture
Site Planning
Digital Design analysis
Architecture and Urbanism
Architectural Structure System
Building Code & Regulation
Architectural Design 7
Architectural Design 8
MethodologyArchitecturalDesign
Construction Technology
Architectural & Design Practice
sustainable Urban Design
Theory of Contemporary Architecture
Architectural Design 9
Ecological Friendly Buliding System
Architectural Business Planning & management
Architectural Design 10
Urban Planning practice
History of Oriental Architecture

■ Careers

Students may receive scholarships and funding to pursue educational opportunities overseas. Upon graduation, they may pursue careers in the architecture design sector, architecture construction sector, architecture structure sector, and architecture safety diagnosis office, in public and private institutes, and with public companies such as the Korea National Housing Corporation and Ministry of Construction and Transportation.

Department of Biomedical Engineering

Contact Information
Tel: +82-61-659-7360
Fax: +82-61-659-7369
E-mail: hyuny@jnu.ac.kr
URL: http://bme.jnu.ac.kr

What is Biomedical Engineering?

Biomedical engineering (BME) is the application of engineering principles and design concepts to medicine and biology for healthcare purposes. BME is advancing rapidly and producing important innovations that improve the quality of human life. The aim of BME is to create new technologies which can improve the work done in such areas as disease diagnosis, patient monitoring, medical treatment, and lifestyle improvement after illness or injury.

Department of Biomedical Engineering at Chonnam National University

The Department of BME at Chonnam National University was established in 2012 as a next-generation growth engine. The BME undergraduate degree program emphasizes engineering design in preparation for employment in biomedical industries and for graduate study.

This department is integrated science including medicine, electronic engineering, computer engineering, mechanical engineering, and a wide range of basic and applied biology knowledge. The courses and academic programs of BME are linked to the biomedical industry that requires substantial overall knowledge and skills.

Professors

- Chang-Moon Lee
  [Professor, Molecular Imaging and Therapy, Nanomedicine, Biomaterials, Drug Delivery System, cmlee@jnu.ac.kr]
- Jihoon Kang
  [Associate Professor, Medical Imaging System, jihoon.kang@jnu.ac.kr]
- Dowon Kim
  [Associate Professor, Neuroengineering, Biomedical Signal Processing, dowon.kim@jnu.ac.kr]
- KangJu Lee
  [Assistant Professor, Bio/micro medical devices, Micro/nano fabrication, Functional biomaterials, Regeneration applications, knjulee@jnu.ac.kr]
- Young-Jin Jung
  [Associate Professor, Biomedical signal and Image processing, Intelligent rehabilitation engineering, Brain engineering, yj@jnu.ac.kr]
- Bo Kyeong Yoon
  [Assistant Professor, Biosensor, Nanobiotechnology, Antibacterial agent, Antiviral agent, bkyoon@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop both the understanding and capability needed to meet the challenges of a modern technological society. Students are required to earn at least 140 credit hours (109 from Department courses and 31 from electives), which normally takes four years of full-time study. Students are also able to earn double majors or minors as a means of broadening the scope of their studies.

■ What Do You Study?

Human Anatomy
Human Physiology
Body structure and Function
Medical Terminology
Digital Fundamentals
Circuit Theory & Practices
Biomaterials
Signals and Systems
Introduction to Biomedical Engineering
Medical polymers
Biomedical Instrumentation
Biomedical Advanced Programming and Practices
Biomedical Digital System Design and Practices
Biomedical Electronic Circuits and Practices
Biomedical Signal Processing and Practices
Biomedical Image Processing and Practices
Biomedical System Design and Practices
Biomedical Programming language and Practices
LabView Programming and Practices
Matlab Programming and Practices
Adcanced VHDL Practices
Brain Engineering
Digital Signal Processing
Microprocessor and Practices
Mobile Programming and Practices
Bionanotechnology
Biosensor Engineering
Biomedical radiology
Hospital Information System
Biomechanics
Biochemistry
Cell Biology
Organic Chemistry
Medical Devices Regulation
Biomedical Equipment and System
Biomedical Optical Engineering
Understanding of Clinical Medicine
Rehabilitation Engineering
Tissue Engineering and Regenerative Medicine

■ Careers

Graduates are employed at universities, in industry, in hospitals, in research facilities of educational and medical institutions, and in agencies for medical devices.

They often serve a coordinating or interfacing function, using their background in both the engineering and biomedical fields. Graduates may also enroll in a graduate program in the field of biomedical engineering.

School of Healthcare and Biomedical Engineering

Contact Information
Tel: +82-61-659-7360, 7390
Fax: +82-61-659-7369
E-mail: hme@jnu.ac.kr
URL: http://hme.jnu.ac.kr

What is Healthcare and Biomedical Engineering

New diseases are emerging, and the current diseases are also evolving in various ways as society and environment change. Modern medical technology has made remarkable advances in our ability to diagnose and treat these diseases. In recent, a new biomedical paradigm is being born through the unprecedented convergence of information and communication technology (ICT), artificial intelligence (AI), data science biotechnology (BT), nanotechnology (NT), medicine, and pharmaceutics. Healthcare medical engineering is a study that goes beyond existing methods in the future medical industry to suggest new treatment methods for diseases, early prevention of diseases, and a new medical ecosystem that can manage individual health.

School of Healthcare and Biomedical Engineering at CNU

School of Healthcare and Medical Engineering aims to train the next-generation advanced medical glocal core experts who will lead the future medical industry. School of Healthcare and Medical Engineering includes Major of Bio-Healthcare and Digital Healthcare. Based on biotechnology and medical/pharmaceutical knowledge, in Major of Bio-Healthcare, students learn the fields of bio-analysis/diagnosis, genetic engineering, pharmaceuticals, cosmetics, etc. to care for the human body. Major Bio-Healthcare aims to nurture talents who lead future healthcare by acquiring new-concept healthcare, and customized precision medicine. Major of Digital Healthcare aims to nurture talents who can provide personalized medical services anytime, anywhere based on future technologies such as medical big data, artificial intelligence, medical IoT, and advanced medical devices.

Professors

- Chang-Moon Lee
  [Professor, Molecular Imaging and Therapy, Nanomedicine, Biomaterials, Drug Delivery System, cmlee@jnu.ac.kr]
- Jihoon Kang
  [Associate Professor, Medical Imaging System, jihoon.kang@jnu.ac.kr]
- Dowon Kim
  [Associate Professor, Neuroengineering, Biomedical Signal Processing, owon.kim@jnu.ac.kr]
- KangJu Lee
  [Assistant Professor, Bio/micro medical devices, Micro/nano fabrication, Functional biomaterials,

Regeneration applications, knjulee@jnu.ac.kr]

- Young-Jin Jung
  [Associate Professor, Biomedical signal and Image processing, Intelligent rehabilitation engineering, Brain engineering, yj@jnu.ac.kr]
- Bo Kyeong Yoon
  [Assistant Professor, Biosensor, Nanobiotechnology, Antibacterial agent, Antiviral agent, bkyoon@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop both the understanding and capability needed to meet the challenges of a modern technological society.

Students are required to earn at least 140 credit hours (75 from Department courses and 65 from electives), which normally takes four years of full-time study.

Students are also able to earn double majors or minors as a means of broadening the scope of their studies.

■ What Do You Study?

Introduction to Healthcare Medical Engineering
Engineering Mathematics
Medical Terminology
Body structure and Function
Ethics for Healthcare & Medical Engineer
Biomedical Instrumentation
Introduction to Computer Programming
Future Healthcare Industry and Innovative Start-Up
Probability and Statistics
Circuit Theory & Practices
Quantitative Analysis
Biomaterials
Biochemistry
Cell Signaling
Genetic Engineering
Virology and Biotechnology
Bio-Optics
Cell and Animal Experiment
Organic Chemistry
Pharmaceutical Instrument analysis and practice
Healthcare Sensor Engineering
3D Bio-Printing and Biofabrication
Immunology
Bioanalytical Instruments
Radiation Measurement Theory and Practice
Medical polymers
Cosmeceuticals
Bioinformatics
Drug Delivery System
Stem Cell Engineering and Bioreactor
BioMEMS
Smart Theranostics
Pharmacological Toxicology
Understanding of Clinical Medicine
Linear Algebra
Signals and System Engineering
Biomedical Programming
Computer System Architecture
Circuit Theory with Practice
Advanced Biomedical Programming
Introduction to Data Science
Digital Signal Processing
Introduction to Opensource
Computer Networks
Microcontroller and Practices
Mobile Programming and Practices
Biomedical Signal Processing and Practice
Medical Pattern Recognition

Biomedical Mechatronics
Introduction to Artificial Intelligence
Digital Health
Medical Data Analysis
Introduction to Deep Learning
Internet of Medical Things System Design and Practice
Introduction to Neuroengineering
Biomedical Image Processing and Practices
Bigdata Engineering
Hospital and Medical Information System

■ Careers

Graduates are employed at universities, in industry, in hospitals, in research facilities of educational and medical institutions, and in agencies for medical devices.

They often serve a coordinating or interfacing function, using their background in both the engineering and biomedical fields. Graduates may also enroll in a graduate program in the field of biomedical engineering.

Department of Petrochemical Materials Engineering

Contact Information
Tel: +82-61-659-7760
E-mail: cukacuka@jnu.ac.kr
URL: https://pcme.jnu.ac.kr

What is Petrochemical Materials Engineering?

Petrochemical Materials Engineering is helping solve the world's most daunting challenges in health, energy, and the environment by improving the products that people use every day. Products made from petrochemicals—derived from crude oil and other fossil fuels such as coal and natural gas or from renewable sources such as sugar cane, corn, and other biomass—are found in products as diverse as automobiles, smartphones, computers, clothes, luggage, boats, fertilizers, pesticides, drugs, soaps, paints, flooring, and insulating materials, which are crucial in modern civilization.

Department of Petrochemical Materials Engineering at Chonnam National University

The Department of PCME at Chonnam National University was established in March 2021 by new promotion policy of the Korean Ministry of Education for cultivating the future talent by equipping them with the skills required in the upcoming society. With the advent of the 4th Industrial Revolution, the high technologies are becoming ever more sophisticated, and the society we live in now demands different set of skills compared to past generations. The PCME is building the differentiated educational environment to meet future industrial demand and to be conducive making our students competitiveness freely. The PCME comprises the following two majors to foster understanding that is necessary for the development of engineering: petrochemical convergence materials engineering and green chemical process engineering.

Professors

- Hyosung An
  [Assistant Professor, Functional polymeric and composite materials, 3D Electron tomography, hyosungan@jnu.ac.kr]
- Byun Jaewon
  [Assistant Professor, Process Systems Engineering, jaewonbyun@jnu.ac.kr]

Degree Requirements

Students are required to earn at least 130 credit (99 from Department courses and 31 from electives), which normally takes four years of full-time study, and pass qualifying exams or a dissertation.

■ What Do You Study?

Fundamentals of petrochemical materials engineering
Introduction of chemical engineering and process technology
Petrochemical Engineering Materials Design
Artificial Intelligence and Advanced Technologies
Basic Design of Chemical Engineering
Leadership Communication and Business mind
Physical Chemistry 1,2
Organic Chemistry 1,2
Engineering Mathematics 1,2
Basic Experiment Of Chemical Engneering
Calculations in Chemical Engineering
Process Control
Materials Science
Polymer Chemistry
Polymer Physics
Reaction Engineering
Process Design and Analysis
Chemical Engineering Thermodynamics
Chemical Process Thermodynamics
Field Practice for PettroChemical material Engineering1,2
Heat and Mass Transfer Phenomena
Electrochemistry Design
green Chemical Process Design
Chemical Engineering Thermodynamics
Special Topic in Renewable Energy Systems
Chemical Plant Design
Chemical Process risk assessment
Green Process Design
Catalyst Chemistry
Chemical Engineering Experiment Capstone Design Practices 1,2
Capstone Design Practices 1,2
Chemical Safety and Quality Control
Chemical Electronic Materials Design
Reaction Engineering
Petrochemical Engineering Materials Design
Petrochemical Industry

■ Careers

Graduates obtain employment in public research institutes and chemical plants (petrochemical, oil refinery, fertilizer, synthetic resin, oil and fat, food industry, inorganic chemistry, explosives, cement, glass, dye, rubber, paint, pulp and paper, metal, and smelting) in all parts of the country, including the Yeosu.

Department of Industrial Technology Convergence Engineering

Contact Information
Tel: +82-61-659-7750
Fax: +82-61-659-7759
URL: https://itce.jnu.ac.kr

■ What is Industrial Technology Convergence Engineering?

The Department of Industrial Technology Convergence Engineering fosters convergence-type talents with humanities imagination and scientific and engineering creativity to lead the era of the 4th industrial revolution for industrial workers who graduated from specialized high schools or late learners.

In addition, a dedicated course for post-learners (lifelong education system) is established and operated to promote regional strategic industry, future new industries, and the development of local communities. We carry out education specialization of education tailored to the industry's demand and field-oriented practical education curriculum. By operating the creative convergence job competency strengthening program of the 4th industrial revolution required by companies and society, we nurture talented people with customized professional knowledge centered on job expansion, re-employment, and second start-up.

In particular, high tech education required for industrial sites in Gwangyang Bay Area and Yeosu National Industrial Complex based on ICT and artificial intelligence is carried out. By educating various courses such as basic competency reinforcement, chemical engineering field competency reinforcement, plant field competency reinforcement, industrial automation field competency reinforcement, etc. it trains professional manpower who can lead the 4th industry and future information society.

■ Major Industrial Technology Convergence Engineering

- Business competency enhancement: A course to cultivate in-depth professional knowledge necessary for self-development and job competency enhancement
- Reinforcement of competence in chemical engineering: A process to understand chemical processes and acquire specialized knowledge applicable to practice
- Reinforcement of plant field competency: A course to nurture practical skills for measurement and control to achieve high efficiency in plant work
- Reinforcement of industrial automation competency: Artificial intelligence and IoT-based industrial automation technology learning and advancement course

■ Degree Requirements

Students are required to earn 130 credits, with 15 credits from core courses, and 33 credits 28 credits from electives over a 4-year. Students are also required to take a graduation exam, and demonstrate proficiency in a foreign language.

■ Professors

• Gwang-jun Kim, Ph.D.
[Professor, Computer Communication, kgj@jnu.ac.kr]

■ What Do You Study?

General Courses

General Chemistry 1 (3)
Chemistry Laboratory 1(1)
Mathematics 1 (3)
English for Global Communication (3)

Core Courses

Introduction to Industrial Convergence (3)
Basic of Computer Programming (3)
Introduction to Smart Factory (3)
P&ID Practice (3)
Capstone Design for Industrial Technology Convergence Engineering Ⅰ (3)

Electives

Digital Circuit Design (3)
Introduction to Smart Electrical and Eletronic Engineering (3)
Organic Chemistry (3)
Basic Design of Chemical Engineering(Adventure Design) (3)
Introduction to Chemical Process (3)
Petrochemical Industry (3)
Case Studies of Industrial Engineering (3)
Information & Communication Systems (3)
Chemical Safety Engineering (3)
Chemical Safety Engineering (3)
Computer Aided Design of Chemical Engineering (3)
Instrumentation Control Practice (3)
Separation and Purification Process (3)
Industry Safety Engineering (3)
Embedded System (3)
Object-Oriented Programing (3)
Process Operation Practice (3)
Design Engineering (3)
Internet of Things (3)
System Analysis & Design (3)
Quality Control (3)
Introduction to Chemical Process (3)
Production Management (3)
Energy Engineering (3)
Artficial Intelligence and Application (3)
Plant Safety Facility (3)
Filed Practice (3)
Engineering Economy (3)
Engineering Economy (3)
Factory Energy Manegement (3)
Technology and Entrepreneurship (3)
Capstone Design for Industrial Technology Convergence Engineering Ⅱ(3)
Industrial Automation Robots (3)
Product Developement Engineering (3)

■ Careers

Industrial Technology Convergence Engineering majors go on to jobs in precision chemistry, semiconductor chemistry, heavy industries, the petrochemical industry.

- Chemicals and Petroleum companies
- Steel industry company
- Electrical and semiconductor sectors
- Research Institute: Researcher at the Institute of Private Enterprises

- Government Agencies
- Korea Water Resources Corporation, Korea Environmental Corporation, National Institute of Environmental Sciences

College of Agriculture and Life Sciences

Contact Information
Phone: +82-62-530-2004
Fax: +82-62-530-2002
URL: http://agric.jnu.ac.kr/

- Department of Applied Plant Science
- Department of Horticulture
- Department of Applied Biology
- Department of Forest Resources
- Department of Wood Science and Engineering
- Department of Agricultural & Biological Chemistry
- Department of Food Science and Technology
- Department of Molecular Biotechnology
- Division of Animal Science
- Department of Rural and Biosystems Engineering
- Department of Agricultural Economics
- Department of Landscape Architecture
- Department of Bioenergy Science and Technology
- Department of Convergence Biosystems Engineering
- Research Centers
  - Institute of Agricultural Science and Technology
  - Asian Pear Research Institute
  - Bioenergy Research Center
  - Institute of Environmentally-Friendly Agriculture

Department Of Applied Plant Science

__Contact Information
Phone: +82-62-530-2050
Fax: +82-62-530-2059
E-mail: yangnew@jnu.ac.kr
URL: https://agro.jnu.ac.kr/agro_eng

What is Applied Plant Science?

The Department of Applied Plant Science teaches basic and applied scientific theories and methodology, technique and practice related to the production of indigenous crops for human life and health such as edible and special crops, quality new variety breeding and crop physiology. Currently, the professors provide a variety of educational and research spectrums ranging from crop breeding to global climate change countermeasures.

To clarify the life phenomena from crop molecular units to populations at the point of genetic, environmental, and interrelationships, and apply the principles to improve the productivity and quality of crop. It also deals with theories and techniques of crop production that harmonize with the natural and production ecosystems of human survival.

This major aims to create a new variety by using molecular biology techniques, to search for adaptation mechanism of crops to bad environment, to search for new functional plant resources, to identify the substance, to search for mechanism of action, to minimize the biological obstacles of crop production, To identify the responses of crops to global environmental changes, and to develop countermeasures.

Graduates are employed by national and public research institutes, government agencies, researchers and leaders of various seed and pesticide companies.

Professors

Applied Plant Science

- Han-Yong Kim, Ph.D.
  [Rice Crop Science, hyk1020@jnu.ac.kr]
- Jonghan Ko, Ph.D.
  [Crop Environmental Ecology, jonghan.ko@jnu.ac.kr]
- Ok Ran Lee, Ph.D.
  [Special Crop Science, mpizlee@jnu.ac.kr]
- Bo-Keun Ha, Ph.D.
  [Crop Genetics & Breeding, bkha@jnu.ac.kr]
- Jaeil Cho, Ph.D.
  [Climatological Crop Physiology, chojaeil@jnu.ac.kr]

What Do You Study?

General Courses

General Biology 1 (3)
General Chemistry 1 (3)

Core Courses

Basic Lab of Crop Production 1 (2)
Basic Lab of Crop Production 2 (2)

▮ Electives

Industrial Crop Science and Practice (3)
Plant Breeding and Experiment (3)
Food Crops 1 and Practice (3)
Food Crops 2 and Practice (3)
Principles of Crop Production (3)
Climatological Crop Physiology (3)
Plant Biochemistry (3)
Genetics (3)
Agricultural Meteorology (3)
Seed Science (3)
Soil and Production Environment (3)
Crop Ecology (3)
Environmental Vegetation Ecology (3)
Biostatistics (3)
Environmental Vegetation Management and Practice(3)
Molecular Crop Breeding (3)
Crop Molecular Genetics (3)
Quality Assessment and Management (3)
Pragmatic management of climatic damage (3)
Crop Growth Modeling (3)
Farm Management (3)
Principles of Crop Protection (3)
Medicinal Plant Science (3)
Production of Functional Materials (3)
Environment Conservative Plant Production (3)
Management of Crop Post-harvest (3)
Plant Tissue Culture (3)
Understanding of Agricultural Science (3)
Capstone Design Practice (3)
Field Practice 1 (2)
Edible Plant Resources (3)
Integrated Agro-ecosystem (3)
Crop Production Systems (3)
Introduction of Environmental Agriculture (3)

▮ Minor Courses

21 credits must be chosen.

Department of Horticulture

Contact Information
Phone: +82-62-530-2060
Fax: +82-62-530-2069
E-mail: yohong@jnu.ac.kr
URL: http://hort.jnu.ac.kr/

What is Horticulture?

Department of Horticulture deals with theories and techniques for plant production harmonized with nature and agro-ecosystems, which are the basis of life. It also pursues the exploration of life phenomena in crop plants at various levels from plant molecular to community through understanding heredity, environment, and their interrelationships, in order to ensure both the productivity and quality of crop plants. The goal of the Department is to promote global talents through teaching and training on (1) breeding novel crop varieties using traditional and molecular tools, (2) understanding the mechanisms of plant adaptation to abiotic and biotic stresses, (3) identifying, understanding, and producing new substances in industrial and medicinal plants having specific functions, (4) establishing sustainable agricultural systems by minimizing limiting factors to crop production, and (5) understanding crop responses to global environmental change (GEC) and strategies to cope with GEC.

Professors

- Tae-Ho Han, Ph.D.
  [Ornamental Plant Science, hanth@jnu.ac.kr]
- Jeong-Hyun Lee, Ph.D.
  [Greenhouse Horticulture, leetag@jnu.ac.kr]
- Sung-Gil Kim, Ph.D.
  [Horticultural Crop Breeding & Genetics, dronion@jnu.ac.kr]
- SangHyeon Lee, Ph.D.
  [Pomology & Reproduction, pear@jnu.ac.kr]
- Young Boon Lee, Ph.D.
  [Horticultural Corp Quality Managements, dudqns2@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits to graduate.

What Do You Study?

General Courses

General Biology 1 (3)
General Chemistry 1 (3)
Understanding of Science History (3)
Writing in the Natural Sciences and Engineering(3)
Career Plan and Self Understanding (2)

Electives

Field Practice 1 (5)
Field Practice 2 (5)

Core Courses

General Botany (3)
Introduction of Vegetable Crops (3)

Introduction of Ornamental Plant Science (3)
Introduction of Pomology (3)
Genetics (3)

▮ Electives

Introduction to the horticultural sciences (3)
Vegetable seedling (3)
Molecular Biology (3)
Biochemistry 1 (3)
Plant Physiology 1 (3)
Proposal construction for farming settlement(Capstone) (2)
Basic principle and practice for farming settlement 1 (3)
Promotion of Agricultural Business (3)
Actual principle and practice for farming settlement 1 (3)
Advanced principle and practice for farming settlement 1 (3)
Propagation of Horticultural Crops (3)
Horticultural Crop Product (Capstone Design) (3)
Field vegetable production and agriphotovoltaic practice (3)
Plant Pathology (3)
Soilless Culture (3)
Business administration in Agriculture (3)
Basic principle and practice for farming settlement 2 (3)
Actual principle and practice for farming settlement 2 (3)
Advanced principle and practice for farming settlement 2 (3)
Design of horticulture equipment(Capstone Design) (3)
Ornamental Plant Breeding (3)
Quality management of floricultural plant (3)
Introduction of Pomology (3)
Climate Change on Horticulture Industry (3)
Biostatistics (3)
Greenhouse horticulture (3)
Principle of Plant Breeding (3)
Plant morphology (3)
Law and Regulation in Horticulture (3)
Horticultural Plant Resources (3)
Molecular Breeding of Horticultural Crops (3)
Floral Design and Entrepreneurship1 (3)
ICT adaptation of Horticultural Field Crops (3)
Plant ecology (3)
Greenhouse climate control (3)
Advanced Vegetable Crop Science (3)
Floral Design and Entrepreneurship 2 (3)
Landscape and management of floricultural plant (3)
Laboratory and Field Practice for Horticulture and Biotechnology1 (3)
Laboratory and Field Practice for Horticulture and Biotechnology2 (3)
Horticultural Therapy (3)
Metabolomic research and practice for horticultural crops (3)
Postharvest Management of Horticultural Crops (3)
Seed Production (3)

▮ Teaching Profession Courses

A Research Of Biology Teaching Materials & Teaching Method (3)
Biology Education (3)
A Course on Biology Logic and Essay Writing (2)

▮ Minor Courses

General Botany (3)
Introduction of Vegetable Crops (3)
Introduction of Ornamental Plant Science (3)
Introduction of Pomology (3)
Genetics (3)

▮ Minor Electives

6 credits must be chosen

■ Careers

Students become experts in agricultural industries. They find work as educators or researchers in government laboratories or private institutions. Other employment opportunities exist in seed and seedling companies, agro-chemical companies, agricultural cooperatives, and plant quarantine organizations. University positions such as assistantships in the areas of teaching and/or conducting are open to graduate students.

Department of Applied Biology

Contact Information
Phone: +82-62-530-2070
Fax: +82-62-530-2079
E-mail: yckimyc@jnu.ac.kr
URL: http://agribio.jnu.ac.kr/

What is Department of Applied Biology?

The Department of Applied Biology at Jeonnam National University is composed of 3 main fields: Plant Pathology, Entomology, and Stress Biology. The educational goal at Department of Applied Biology is to foster professional individuals who learn both basic and applied sciences on plant response to pathogens, agricultural pests, and environmental stresses that significantly diminish plant and crop productivity.

Plant Pathology field focuses mainly on plant-pathogen (bacteria, fungi, virus) interactions, molecular genetics to understand mechanisms and biological control of plant diseases, and ecology and evolutionary biology of plant-associated microbes. Entomology field focuses mainly on the damage analysis and integrated pest management by the fundamental studies of classification, phylogeny, chitin biotechnology, and ecology of insect pests. Interactions between microbial natural enemy and insect pests are also studied for the eventual biological control of agricultural insect pests. Stress Biology field focuses mainly on the identification and determination of potential genes involved in plant responses to environmental stresses (drought, high and low temperatures, salt, UV), which would provide novel means to develop stress-tolerant agronomic crops.

The Department's curricula cover all necessary subjects for basic and applied sciences. We will educate students with a vision of becoming leading scientists in future agriculture.

Professors

- Hun-Seung Kang, Ph.D. [Biochemistry, hskang@jnu.ac.kr]
- Young-Cheol Kim, Ph.D. [Plant Pathology, yckimyc@jnu.ac.kr]
- Yeon-Soo Han, Ph.D. [Insect Pathology, hanys@jnu.ac.kr]
- Cheol-Soo Kim, Ph.D. [Plant Functional Genomics, cskim626@jnu.ac.kr]
- Kwang-Yeol Yang, Ph.D. [Molecular Plant Pathology, kyyang@jnu.ac.kr]
- Ik-Soo Kim, Ph.D. [Insect Molecular Phylogenetics and Ecology, ikkim81@jnu.ac.kr]
- Yasuyuki Arakane, Ph.D. [Insect Chitin Biotechnology, Yasuyuki Arakane@jnu.ac.kr]
- Rae-Dong Jeong, Ph.D. [Plant Virology, jraed2@jnu.ac.kr]

Laboratories

- Plant Molecular Biology Lab
- Plant Pathology Lab

- Insect Pathology Lab
- Plant Molecular Biology Lab
- Plant Functional Genomics Lab
- Insect Molecular Phylogenetics and Ecology Lab
- Insect Chitin Biothecnology Lab
- Plant Virology Lab

■ Degree Requirements

Students are required to earn 130 credits to graduate.

■ What Do You Study?

▮ Core Courses

Insect Pests of Plants (3)
Plant Pathology (3)
Laboratory and Field Practice for Applied biology (3)

▮ Electives

Insect Physiology (3)
Quarantine Insect Pest (3)
Functional Insect Genomics (3)
Insect Innate Immunity and its application (3)
Insect Diversity (3)
Insect Molecular Diagnosis (3)
Insect Physiology (3)
Insect Biotechnology (3)
Insect-inspired biomimetics (3)
Insect Ecology (3)
Insect gut symbionts and its application (3)
Insect cuticle structure and function (3)
Climate Response and Plant Stress Control (3)
Climate Smart Plant Disease Control (3)
Molecuar Insect Pathology (3)
Molecuar Vector Entomology (3)
Molecular Biology (3)
Biostatistics (3)
Biochemistry 1 (3)
Biochemistry 2 (3)
Cell Biology (3)
Introduction of Plant Quarantine (3)
Plant Virology (3)
Plant Pathology Lab. (1)
Phytobacteriology (3)
Clinical Plant Pathology (3)
Molecular Plant Pathology (3)
Plant Molecular Physiology (3)
Plant Molecular Genetics (3)
Plant Molecular Biotechnology (3)
Plant Physiology 1 (3)
Plant Physiology 2 (3)
Plant Biotechnology (3)
Plant Genetic Engineering (3)
Undergraduate research in plant doctor (3)
Phytopathogenic fungal pathology (3)
Botany (3)
Insect Pest Experiment (1)
Plant Environmental Physiology (3)
Trends in RNAi-based pest control (3)
Genetics (3)
General Microbiology (3)
Resource Entomology (3)
Crop production and management (3)
Medical Vector Biology (3)
Insect Control (3)
Introduction of Plant-Microbe Interactions (3)

▮ Teaching Profession Courses

Biology Education (3)
A Research of Biology Teaching Materials & Teaching Method (3)
A Course on Biology Logic and Essay Writing (2)

▮ Minor Courses

Insect Pests of Plants (3)
Plant Pathology (3)
Laboratory and Field Practice for Applied biology (3)

▮ Minor Electives

12 credits must be chosen

Careers

Students become experts in agricultural industries. They find work as educators or researchers in government laboratories or private institutions. Other employment opportunities exist in seed and seedling companies, agro-chemical companies, agricultural cooperatives, and plant quarantine organizations.

University positions such as assistantships in the areas of teaching and/or conducting are open to graduate students.

Department of Forest Resources

Contact Information
Phone: +82-62-530-2080
Fax: +82-62-530-2089
URL: http://forestry.jnu.ac.kr

What is Forest Resources?

Forests occupy 65% of the land area in Korea. The mission of the Major in Forestry is to educate and engage the next generation of scholars, practitioners, and users of the forests, to conduct distinctive problem-solving and fundamental research on nature and use of forests and related resources, and to share discoveries and knowledge with others.

Major in Forest Resources

The Major in Forestry is dedicated to the understanding, effective management, and sustainable use of forests to support the national economy and public welfare, and to conserve the wider forest ecosystem.

Professors

- Ki-Wan An, Ph.D.
  [Professor, Forest Policy, kiwan@jnu.ac.kr, 062-530-2085]
- Kye-Han Lee, Ph.D.
  [Professor, Forest Ecology, khl@jnu.ac.kr, 062-530-2087]
- Young-Sang Ahn, Ph.D.
  [Associate professor, Forest Environment Conservation Engineering, ysahn@jnu.ac.kr, 062-530-2081]
- Mi-Young Noh, Ph.D.
  [Assistant professor, Forest Protection, annemi@jnu.ac.kr, 062-530-2083]
- Hyun-Jun Kim, Ph.D.
  [Assistant professor, Silviculture, hjkim0837@jnu.ac.kr, 062-530-2082]

Degree Requirements

Students are required to earn 130 credits with a minimum grade point average of 1.75 (out of a scale of 4.5). Students must also enroll for 4 years and pass a comprehensive exam.

What Do You Study?

Core Courses

Introduction to Forestry (2)
Dendrology (3)
Silviculture 1 and Practice (3)
Dendrology Practice (2)
Forest Management (3)
Forest Protection (3)

Electives

Seminar in Elementary Forestry (1)
Surveying and Practice (3)
Principles and Practices for Farming Settlements 1 (3)
Principles and Practices for Farming Settlements 2 (3)
Economic Plants in Forests (3)
Practice in Forest Entomology (1)
Forest Entomology (3)
Forest Measurement and Practice (3)
Forest Recreation Resource Management (3)
Forest Hydrology & Practice (3)
Mushroom Cultivation and Practice (3)
Forest Breeding and Tree Improvement (3)
Field Trip to College Forest (Silviculture) (1)
Silviculture 2 and Practice (3)
Nature Interpretation and Practice (3)
Forest Management Practice (2)
Forest Ecology and Practice (3)
Forest Soil Science (3)
Range and Wildlife Management (3)
Forest Machinery and Practice (3)
Forest Civil Engineering and Practice (3)
Engineering of Forest Environment Conservation and Practice (3)
Forest Policy and Practice (3)
Proposal Construction for Farming Settlements (1)
Forest Pathology (3)
Urban Forestry (3)
Forest Resources Capstone Design 1 (3)
Forest Resources Capstone Design 2 (3)
Forest Resources Field Practice 1 (2)
Forest Resources Field Practice 2 (2)
Practice in Forest Entomology (1)
Tree Physiology (3)
Forest CAD (3)
Geographic Information System in Forests (3)
Forest Laws and Practice (3)
Forest Recreation Research Methods and Practice (3)
Field Practice 2 (18)

Careers

Graduates may find work in the Korean Forestry Service, Korea National Arboretum, or National Plant Quarantine Service. They can also work in many other public organizations such as the Korea Highway Corporation, Korea National Park Service, the National Forestry Cooperatives Federation, and mushroom production companies.

Graduates who earn certificates in forest management or forest seeding may work in private nurseries and work as private forestry technicians.

Department of Wood Science and Engineering

Contact Information
Phone: +82-62-530-2090
Fax: +82-62-530-2099
URL: http://wood.jnu.ac.kr

Major in Wood Science and Engineering

After the UN Rio Environmental Summit in 1992, international interest in woody biomass-produced forests has grown due to their important roles in environmental conservation and bioenergy. The undergraduate program in Wood Science and Engineering is dedicated to extending wood resources to meet the growing needs of society through research on manufacturing and processing of wood-based materials which are indispensable to enhancing the quality of human life.

The program offers a wide variety of challenging career tracks: wood anatomy, wood physics, wood processing, wood improvement for design and construction of wood-framing structures, bioenergy, wood biotechnology, and wood chemistry. More specific wood chemical/biological processing programs also address the question of harnessing the environment for fiber and energy production in the near future.

Professors

- Hyoung-Woo Lee, Ph.D.
  [Wood Processing and Machineries, hwlee@jnu.ac.kr]
- Jae-Won Lee, Ph.D.
  [Wood Chemistry, Bioenergy, ljw43376@jnu.ac.kr]
- Gi-Young Jeong, Ph.D.
  [Wood Engineering, gjeong1@jnu.ac.kr]
- Jongsik Kim, Ph.D.
  [Wood Anatomy and Preservation, jongsik.kim@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 8 semesters, in accordance with university regulations.

What Do You Study?

Core Courses

Introduction to Wood Science & Engineering (2)

Electives

Wood Anatomy & Lab. (2)
Applied Mathematics in Forest Products (3)
Furniture Manufacturing and Lab. (3)
Practice of Wooden Furniture Design and Drafting (3)
Wood Physics & Lab (3)
Wood Mechanics (3)
Wood Chemistry and Lab. (3)
Bioenergy (3)
Materials for Ecological Building Construction (3)

Plant Biopolymer (3)
Drying Technology in Forest Products Industry (3)
Unit Operations in Forest Products Industry (3)
Wood Improving and Lab. (3)
Climate Change and Living Environment (2)
Design of Wood Frame Construction & Buildings (3)
Logging Operations (3)
Instrumental Analysis of Lignocellulose (3)
Wood based composite analysis (3)
Plant and Wood Biotechnology (3)
Field experience in wood science area (3)
Forest Microbiology and Lab. (3)
Renewable wood materials and wood construction (3)
Pulp & Paper Technology (2)
Theory of Engineering Wood (2)
Wood Preservation and Lab. (3)
Extractives in Wood (3)
Lignocellulosic biorefinery (3)
Operations Management in Forest Products Industry (3)
Machinery in Forest Products Industry (3)
Subject of wood science & engineering (2)
Data writing in wood science area (3)
Forest Products (3)
Capstone design(3)

■ Careers

Students may pursue various careers in wood- processing industries including lumbering, plywood, and furniture manufacturing and production.

Other industries include particle boards and fiber boards, pulp and paper, and the bio-fuel production industry.

Department of Agricultural and Biological Chemistry

Contact Information
Phone: +82-62-530-2130
Fax: +82-62-530-2139
E-mail: woojung@jnu.ac.kr
URL: http://agrochem.jnu.ac.kr/

What is Agricultural and Biological Chemistry?

Agricultural and Biological chemistry covers the understanding and application of biology and chemistry to agricultural systems for the purpose of benefitting agricultural production.

The main objective of Agricultural and biological chemistry is to provide students with the combined knowledge of plant nutrition and physiology, biochemistry, molecular biology, natural chemistry, soil science, microbiology, and environmental pesticide science for pursuing studies and careers related to agricultural environment and life sciences.

Agricultural and Biological chemistry contains as its main subjects fertilizer science, plant nutritional science, biochemistry, molecular biology, analytical chemistry, natural chemistry, organic chemistry, soil science, soil microbiology, pesticide science, general chemistry, biology, environmental chemistry, and their related laboratories and practical experiments.

Professors

- Kil-Yong Kim, Ph.D.
  [Professor, Soil Microbiology, kimkil@jnu.ac.kr]
- In Seon Kim, Ph.D.
  [Professor, Environmental Pesticide Science, mindzero@jnu.ac.kr]
- Hyang Burm Lee, Ph.D.
  [Professor, Environmental Microbiology, hblee@jnu.ac.kr]
- Woo Jin Jung , Ph.D.
  [Professor, Plant Resources Science, woojung@jnu.ac.kr]
- Jin-Cheol Kim, Ph.D.
  [Professor, Plant Growth Regulators Science, kjinc@jnu.ac.kr]
- Yeonjong Koo, Ph.D.
  [Associate Professor, Biofertilizer, yeonjong@jnu.ac.kr]
- Eun Hea Jho, Ph.D.
  [Associate Professor, Agricultural Environment, ejho001@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits including 27 credits from core courses.

What Do You Study?

Core Courses

General Chemistry I (3)
General Chemistry II (3)
General Biology I (3)

General Biology II (3)
Quantitative Analysis (3)
Organic Chemistry (3)
Soil Science (3)
Pesticide Science (3)
Biochemistry 2 (3)

▮ Electives

Agricultural and Biological Chemistry (3)
Agricultural Radio Chemistry (3)
Agriculture Inspection Science (3)
Agro-Environmental Chemistry and Toxicology (3)
Biochemistry 1 (3)
Biocontrol Science (3)
Biological and Environmental Chemistry (3)
Biological Chemistry research (2)
Biological Control Science (3)
Bioremediation (3)
Biostatistics (3)
Chemistry of Natural Products (3)
Crop Science (3)
Environmental Assessment Theory (3)
Environmental Chemistry for Agriculture (3)
Environmental Ecology (3)
Environmental Safety and Asesment (3)
Environmental Toxicology (3)
Exercise in Agricultural Chemistry (3)
Fertilizers (3)
General Microbiology (3)
Insect Pests of Plant (3)
Introduction in Instrumental Analysis (3)
Introduction to Biotechnology (3)
Introduction to environmentally-friendly agriculture(3)
Lab Work of Applied Chemistry (2)
Lab Work of Fundamental Chemistry (2)
Microbial & Biological Chemistry experiment (2)
Molecular Biology (3)
Mycology (3)
Organic Chemistry 2 (3)
Pesticide Toxicology (3)
Plant Nutrition (3)
Plant Pathology (3)
Plant Resources Science (3)
Principles and Practice for Farming Settlement 1 (3)
Principles and Practice for Farming Settlement 2 (3)
Principles of Crop Production (3)
Proposal Construction for farming Settlement (1)
Soil Microbiology (3)

■ Careers

Graduates are able to find meaningful employment in agricultural companies related to pesticides and fertilizers, academic schools and institutes related to environmental and biological research, national institutes related to agricultural areas, industrial companies related to pharmaceutical areas, and national institutes related to analytical and toxicological areas.

Department of Food Science and Technology

Contact Information
Phone: +82-62-530-2140
Fax: +82-62-530-2149
E-mail: A5204@jnu.ac.kr
URL: http://foodsci.jnu.ac.kr/

What is Food Science and Technology?

Food Science and Technology emphasizes food technological issues related to human health and the food industry. The program trains students as food scientists or technologists armed with chemical, microbiological, biological fundamentals as well as engineering methodology for a comprehensive understanding of the physicochemical properties of food, processing and preservation of food materials and other biotechnological applications.

Professors

- Jong-Bang Eun, Ph.D.
  [Professor, Food Processing and Preservation, jbeun@jnu.ac.kr]
- Jae-Hak Moon, Ph.D.
  [Professor, Nutrition and Functional Chemistry, nutrmoon@jnu.ac.kr]
- Du-Woon Kim, Ph.D.
  [Professor, Food Microbiology and Food Biochemistry, dwkim@jnu.ac.kr]
- Young-Min Kim, Ph.D.
  [Associate Professor, Food Engineering and Enzyme Engineering, u9897854@jnu.ac.kr]
- Jeong-Yong Cho, Ph.D.
  [Associate Professor, Food and Natural Product Chemistry, jyongcho17@jnu.ac.kr]
- Soo-Jung Kim, Ph.D.
  [Associate Professor, Food System Engineering, bioksj@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits including 17 credits from core courses.

What Do You Study?

Core Courses

Food Analysis and Lab 1 (1)
Food Chemistry (3)
Food Engineering (3)
Nutrition Chemistry (3)
Food Fermentation Engineering (3)
Food Microbiology and Lab (3)
Food Processing (3)

Electives

Introduction to Food Biotechnology (3)
Introduction to Food Science (3)
General Microbiology (3)
Basic Food Biochemistry (3)
English for Food Technology (3)
Understanding managerial activities of food engineering and career research (1)
Organic Chemistry 1 (3)
Food Analysis and Lab 2 (1)
Statistics for food science (3)

Organic Chemistry 2 (3)
Food Processing and Engineering Lab. (2)
Natural Products Utilization (3)
Food Hygiene (3)
Food Enzyme Technology (3)
Food and Bio Venture Design & Practice (3)
Food Biotechnology (3)
Food Packaging (3)
Food Quality Control (3)
Food Chemistry (3)
Applied Food Biochemistry (3)
Industrial Microbiology (3)
Marine Food Processing (3)
Food Technology Research 1 (1)
Food Science and Technology Capstone Design Practice (3)
Sensory Evaluation of Foods (3)
Food Toxicology (3)
Food Design Engineering (3)
Applied Biotechnology (3)
Food Technology Research 2 (1)
Seminar for Food Professional Development (1)
Food Instrumental Analysis (3)
Food Sanitation Act (3)
Food Oils and Fats (3)

▮ Teaching Profession Courses

Theories of Agricultural Education(3)
Research of Agriculture Teaching Materials & Teaching Method(3)
Logic and Essay Writing in Agricultural (2)

▮ Minor Courses

24 credits must be chosen.

■ Careers

Graduates of the Food Science and Technology Department become food scientists at food companies, the FDA, RDA, Agricultural Research & Extension Service, and the Research Institute related with Food and Biotechnology. They also become government officers related with hygienists, and processors(R&D, Quality Control, Production, Marketing).

Department of Molecular Biotechnology

Contact Information
Phone: +82-62-530-2160
Fax: +82-62-530-2169
E-mail: westlife-jeong@jnu.ac.kr
URL: http://mimb.jnu.ac.kr/

■ What is Molecular Biotechnology?

A broad term of biotechnology is generally used to describe the use of biology in industrial processes such as agriculture, brewing, and drug development. The term also refers to the production of genetically modified organisms(GMOs) or the manufacture of products from genetically modified organisms. It involves the use of plants, animals, and micro-organisms to create products or processes. Traditional applications include animal breeding, brewing beer with yeast, and cheese making with bacteria. Recent developments include the use of enzymes or bacteria in a wide range of applications, including waste management, industrial production, food production and remediation of contaminated land. Modern biotechnology, molecular biotechnology, also includes the use of gene technology, which allows us to move genetic material from one species to another. Biotechnology combines disciplines like genetics, molecular biology, biochemistry, embryology, and cell biology.

■ Department of Molecular Biotechnology

Molecular Biotechnology focuses on the study of regulation and function of genes at the levels of DNA, RNA, and protein in living organisms.

Biotechnology aims to expand its usefulness by identifying and cloning new genes and traits, developing new diagnostic tests, and continuing to use these tools to better understand plants, animals, and microorganisms that make up the world.

■ Professors

- Oksoo Han, Ph.D.
  [Professor, Biochemistry, oshan@jnu.ac.kr]
- Kyoungwhan Back, Ph.D.
  [Professor, Plant Genetic Engineering, kback@jnu.ac.kr]
- Jeong-Il Kim, Ph.D.
  [Professor, Protein Biochemistry, kimji@jnu.ac.kr]
- Suk-Whan Hong, Ph.D.
  [Professor, Molecular Genetics and Breeding, sukwhan@jnu.ac.kr]
- Jun Ho Lee, ph.D.
  [Associate Professor, Neuro Biotechnology, leejunho@jnu.ac.kr]
- Don-Kyu Kim, ph.D.
  [Associate Professor, Molecular Endocrinology, dkkim2@jnu.ac.kr]
- Hyunkyu Sang, Ph.D.
  [Assistant Professor, Molecular Microbiology, hksang@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits including 12 credits from core courses.

■ What Do You Study?

▮ Core Courses

Molecular Biology 1
Biochemistry 2
Animal Genetic Engineering
Plant Genetic Engineering

▮ Electives

Genetic Engineering and Human Life
Organic Chemistry 1
Organic Chemistry 2
Molecular Biology 2
Biochemistry 1
Biochemistry 3
Cell Biology 1
Cell Biology 2
Biostatistics
Animal Physiology
Analytical Chemistry
Analytical Chemistry Lab
General Microbiology
Genetics
Molecular Genetics
Developmental Biology
Molecular Cell Biology
Plant Physiology
Biotechnology Lab
Molecular Breeding
Crop Physiology
Animal Cell Culture and Lab
Immunology
Virology
Enzymology
Recombinant DNA Lab
Plant Tissue Culture
Protein Engineering

■ Careers

Graduates of the Molecular Biotechnology Department obtain jobs at government research institutes (Korea Research Institute of Bioscience & Biotechnology, KIST, Korea Research Institute of Chemical Technology), National Research Institute, Rural Development Administration, Korea Food Research Institute, companies related to biotechnology, pharmaceutical companies, Bio-venture companies, and at the School of Dentistry/Medicine/Pharmacy, patent attorneys, government officials (Korea Food & Drug Administration, local extension workers, researchers), Graduate school, Studying abroad.

Division of Animal Science

Contact Information
Phone: 82-62-530-2120
Fax: 82-62-530-2129
E-mail: A0049@jnu.ac.kr
URL: http://animalscience.jnu.ac.kr/

What is Animal Science?

The division of Animal Science (DAS) was founded in 1995 by merging the Department of Animal Science (founded in 1969) and the Department of Dairy Science (founded in 1973). Our division has made major contributions to research and supporting farmers in the meat, dairy, and feed industries.

Division of Animal Science

Our educational goals:

1) To provide high quality education and training for undergraduate and graduate students to serve internationally competitive and sustainable animal agriculture;
2) To provide new knowledge through basic and applied research in selected areas to improve efficiency in the production and quality of animal products.

The Division operates two research units (pet and special animals and small-to-large sized animals) and three information centers (119, SOS, and Sustainable Animal Research Center) to support research and teaching. This major offers various options so that students can select numerous areas to help them pursue a variety of employment opportunities.

Professors

• Division of Animal Science

• Major in Animal Bioresource

- Sun, Sangsoo, Ph.D.
  [Animal Physiology, sssun@jnu.ac.kr]
- Chin, Koobok, Ph.D.
  [Meat Science, kbchin@jnu.ac.kr]
- Lee, Jiwoong, Ph.D.
  [Animal Breeding and Genetics, jwlee@jnu.ac.kr]
- Kim, Minseok, Ph.D.
  [Animal Nutritions, mkim2276@jnu.ac.kr]
- Yun Jinhyeon, Ph.D.
  [Pig production, pilot9939@jnu.ac.kr]

• Major in Animal Biotechnology

- Kim, Taehwan, Ph.D.
  [Forage Physiology & Biochemistry, grassl@jnu.ac.kr]
- Kang, Manjong, Ph.D.
  [Transgenic Animals, mjkang@jnu.ac.kr]
- Oh, Sejong, Ph.D.
  [Animal Microbial Technology, soh@jnu.ac.kr]
- Jeon, Teail, Ph.D.
  [Animal Metabolomics, tjeon@jnu.ac.kr]
- Kim, Sunghak, Ph.D.
  [Molecular biochemistry, sunghakkim@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits to graduate.

■ What Do You Study?

• Division of Animal Science

Animal Life Science (1)
Introduction to Animal Resources Science (1)
Pet Animal Science (1)

• Major in Animal Bioresource

Reproductive Physiology and Lab. (2)
Animal Feeding and Lab. (2)
Animal Nutrition & Lab. (2)
Livestock Farm Practice (2)
Animal Physiology & Lab (2).
Animal Biochemistry and Lab. (2)
Meat Processing and Lab. (3)
Animal Breeding Principles and Lab. (3)

• Major in Animal Biotechnology

Forage Production and Utilization and Lab. (2)
Animal Cell Biology and Lab. (2)
Animal Biochemistry and Lab1 (2)
Animal Biochemistry and Lab 2 (2)
Dairy Food Processing and Lab. (3)

Department of Rural and Biosystems Engineering

Contact Information
Phone: +82-62-530-2150
Fax: +82-62-530-2159
E-mail: rbe-2150@jnu.ac.kr
URL: http://rbe.jnu.ac.kr

■ What is Rural and Bio-Systems Engineering?

The Department of Rural and Bio-systems Engineering, aim to build a climate-intelligent regional system that integrates regional infrastructure (design and construction), water environment (water management and non-point pollution control), and soil environment (soil quality management and carbon seqeustration), atmospheric environment (fine dust and air pollution management), and policy/planning for sustainable agriculture to realize climate-smart agriculture . After graduating from the department, graduates can play a pivotal role in national and societies by taking jobs in national and regional government, public corperation (e.g., Korean Rural Community Corporation and K-Water), and research institute (e.g., National Institute of Agricultural Science, National Institute of Crop Science, National Institute of Animal Science, Rural Research Institute, and National Institute of Environmental Research).

■ Department of Rural and Bio-Systems Engineering

The Department of Rural and Bio-Systems Engineering pursues global competitiveness in agriculture and the sustainable development of rural communities through the application of integrated knowledge on engineering, natural science, and humanities and social sciences to agricultural and rural systems. The principal contents of research and education of the department are rural amenities, soil and water management, construction and management of infrastructure. Through research and education, the department serves industries and societies and achieves its reputation as a leader in the Rural and Bio-Systems engineering sector.

The Department develops graduates who can pursue engineering careers in industry, academia, consulting, or government. The curriculum is designed to educate the students to:

- possess engineering knowledge and skills on rural amenities and planning, environmental management, water resource conservation, soil remediation and management, and construction and management of rural infrastructure;
- be able to become successfully employed in engineering jobs in industry, government, or academia;
- educate graduates who continue to be engaged in professional development.

Students learn to apply fundamental knowledge of biological and physical sciences, mathematics, and engineering principles to formulate and solve engineering problems. Engineering design is integrated throughout the curriculum, along with opportunities to develop communication, learning, and teamwork skills, culminating in a capstone design experience. Electives in the curriculum allow students to specialize in:

• Rural Planning and Construction: Overall design, planning, and construction of rural systems for conservation and development of rural environments and communities.
• Environmental and Natural Resources Engineering: Development of water and soil resources management technologies for sustainable development of rural and agricultural systems.

Students select courses with the assistance of faculty advisors on an individual basis. Faculty members also assist with professional development and job placement for students.

■ Professors

▮ Rural System Engineering Major

• Kwang-Sik Yoon, Ph.D.
[Professor, Rural Environmental Water, ksyoon@jnu.ac.kr]
• Woo-Jung Choi, Ph.D.
[Professor, Environmental Soil Science, wjchoi@jnu.ac.kr]
• Won-Jin Baek, Ph.D.
[Professor, Rural Infrastructure Engineering, bwj215@jnu.ac.kr]
• Seung-Hwan Yoo, Ph.D.
[Associate Professor, Rural Water Resources Engineering, yoosh15@jnu.ac.kr]
• Se-Woon Hong, Ph.D.
[Assistant Professor; Ag. Facilities and Environment, hsewoon@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 15 credits from core courses.

■ What Do You Study?

Rural Systems Engineering Major Courses

▮ Core Courses

Spatial Information Analysis and Practice (3)
Applied Mechanics of Structures (3)
Irrigation & Drainage Engineering (3)
Agricultural Environment and Ecology (3)
Soil Mechanics and Practice Ⅱ (3)

▮ Electives

CAD (3)
Engineering Mathematics (3)
Fluid Mechanics (3)
Applied Analytical Chemistry (3)
Applied Calculus (3)
Statics (3)
Rural System Seminar on Industrial Topics (3)
Surveying and Practice (3)
Construction Materials (3)
Hydraulics (3)
Applied Surveying and Practice (3)
Mechanics of Materials (3)
English for Rural Systems Engineer (3)
Environmental Soil Science (3)
Reinforced Concrete 1 (3)
Soil Mechanics and Practice 1 (3)
Green Engineering Hydrology (3)
Environmental Pollution Analysis Lab (3)
Construction Methods and Equipments (3)
Rural Land Use Planning (3)
Rural Environmental Engineering (3)
Onsite Water Treatment Engineering (3)
Reinforced Concrete 2 (3)
Land Remediation and Reclamation (3)

Foundation Engineering (3)
Statistical analysis of Climate-Smart Information (3)
Rural Planning (3)
Rural Tourism (3)
Rural Infrastructure Design (3)
Capstone Design for Rural System Engineers 1 (3)
Climate-Smart Disasters Prevention Engineering (3)
Farm Structures (3)
Rural Road Engineering (3)
Rural Settlement Planning (3)
Capstone Design for Rural System Engineers 2 (3)

■ Careers

Graduates who obtain a broad engineering background through the Department's program are sought after by a wide variety of employers. The following is a list of current employers:

- Government Agencies
- Korea Rural Community Corporation
- National Institute of Agricultural Science
- Korea Water Resources Corporation
- Rural Research Institute
- Korea Electric Corporation
- Korea National Housing Corporation
- Korea Highway Corporation
- Korea Railroad
- Construction Companies
- National Institute of Crop Science
- National Institute of Environmental Research
- Korea Hydro and Nuclear Power Corporation
- Korea Gas Corporation
- Mechanical and Electrical Engineering-related Companies
- Food Production Companies
- Crop Storage and Handling Companies
- Agricultural Production Consultant Companies
- Korean Army and Police

Department of Agricultural Economics

Contact Information
Phone: +82-62-530-2170
Fax: +82-62-530-2179
E-mail: scsa13@jnu.ac.kr
URL: http://ae.jnu.ac.kr/

What is Agricultural Economics?

The purpose of the Agricultural Economics (AE) major is to enable students to think like economists in solving problems related to the agricultural sector. Thinking like an economist involves using chains of deductive reasoning to help understand phenomena as well as problem-solving and creative skills in the agricultural sector.

Our goals are to increase understanding of economic behavior and improve students' ability to understand and predict agricultural economic phenomena.

The main subjects of the Department of Agricultural Economics are agricultural economics, farm management, agricultural product price analysis, farm statistics, and resource and environmental economics.

Professors

- Gue-Dae Cho, Ph.D.
  [Professor, Agricultural Policy, Agricultural Product Trade, gcho6011@jnu.ac.kr]
- Hye-Jung Kang, Ph.D.
  [Professor, Farm Management, Production Economics, Food Consumption Economics, hjkang@jnu.ac.kr]
- In-Seog Kim, Ph.D.
  [Professor, Agricultural Marketing and Agribusiness, i.kim@jnu.ac.kr]
- Yoon-Hyung Kim, Ph.D.
  [Associate Professor, Benefit-cost Analysis, Agricultural Development, yonhk@jnu.ac.kr]
- Hanpil Moon, Ph.D.
  [Associate Professor, Applied Econometrics, hanpil@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

Students must also demonstrate proficiency in English and in using computers.

What Do You Study?

Core Courses

Agricultural Economics (3)
Farm Management (3)
Mathematics for Agricultural Economics (3)
Agricultural Prices Theory (3)
Agricultural Policy (3)
Resources and Environmental Economics (3)

Electives

Agricultural Prices Theory (3)
Resources and Environmental Economics (3)
Rural Sociology (3)
Micro-analysis of Agricultural Economics (3)

Agricultural Accounting (3)
Regional Agricultural Economics (3)
Statistics for Agricultural Economist (3)
Agricultural Production Economics (3)
Study of Korean Economy (3)
Agricultural Extension Service (3)
Korean Agricultural History (3)
Agricultural Math Economics (3)
Agricultural Project Appraisal (3)
Agricultural Product Trade (3)
Agricultural Econometrics (3)
Agricultural Systems Analysis (3)
Farm Finance (3)
Rural Survey (3)
Cooperatives (3)
Farm Management Analysis (3)
Agricultural Development (3)
Practice in Economics (3)
Agricultural Marketing (3)
Agricultural Information (3)
Macro-analysis of Agricultural Economics (3)
Globalization and Food Security (3)

Careers

Possible careers extend to a multitude of organizations including the Rural Development Administration, Agricultural Research and Extension Services, government public institutions, research center, Agricultural Cooperative Association, Agricultural Technology Center, and other private sector firms.

It is also possible to enter graduate school or study abroad.

Department of Landscape Architecture

Contact Information
Phone: +82-62-530-2100
Fax: +82-62-530-2109
E-mail: a4723@jnu.ac.kr
URL: http://jnula.jnu.ac.kr/

What is Landscape Architecture?

Landscape architecture is the art and science of arranging the spaces and objects upon land for the benefits of natural environment and human society. It involves the analysis, planning, design, construction, management, and stewardship of the natural and built environments. It includes the systematic study of large land areas based upon the ecological concern and visual quality. It deals with the location of buildings and the organization of the spaces between them. Projects cover parks and recreation, resorts, campuses, gardens, green roofs, interior landscapes, streetscapes, public spaces, urban design, and restoration of streams and wetlands.

Department of Landscape Architecture

The Department of Landscape Architecture offers three degree programs; Bachelor, Master and Doctor of Philosophy in Landscape Architecture. It emphasizes the art and techniques of creating landscapes with a concern for ecology, natural resources, and social services. The faculty specializes in design, planning, construction, management, representation, technology, history and theory. Students will have skills to investigate characteristics of the site, identify solutions and its usage. Our programs guide students to have ability to restore disturbed landscapes, create sustainable ecosystems, and develop suitable and comunities. They are introduced to the various scales of practice from small scaled spaces such as gardens, small parks, and green streets to large scaled ones such as communal parks, resorts, stream corridors, wetlands, cities, and regional watersheds. The program also includes visual and digital media based on programs such as computer aided design, Photoshop, and geographic information system.

Professors

- Tong-Buhm Cho, Ph.D.
  [Professor, Landscape Design, tobcho@jnu.ac.kr]
- Eun-Il Kim, Ph.D.
  [Professor, Environmental Design, eikim@jnu.ac.kr]
- Ki-Yeol Lee, Ph.D.
  [Associate Professor, Landscape Engineering, kylee@jnu.ac.kr]
- Yoon-Ku Kwon, Ph.D.
  [Assistant Professor, Landscape and Regional Planning, ykkwon@jnu.ac.kr]
- Sang-Wook Park, Ph.D.
  [Assistant Professor, Landscape Planting Design, psw04@jnu.ac.kr]

■ Degree Requirements (Bachelor)

Students are required to earn 130 credits, normally over a period of 8 semesters, in accordance with university regulations.

■ What Do You Study in undergraduate?

▮ Core Courses

Landscape Planning Design and Pratice (3)
Practice and Field Trip for Landscape Plants (3)
Landscape Architectural Design 1 (3)
Garden Design (3)
Graduation Design Studio (Capstone Design) (3)

▮ Electives

Tourism and Recreation Planning (3)
Perspective Techniques (3)
Computer-Aided Landscape Planning and Design (3)
Landscape Surveying and Practice (3)
Landscape Design Media Studio 2 (3)
Principles of Landscape Planning (3)
Landscape Architectural Construction Materials (3)
History and Field Trip of western Landscape Architecture(3)
Landscape ecology (3)
Indoor Landscape and Practice (3)
History and Field Trip of Oriental Landscape Architecture(3)
landscape shaping Practice (3)
Landscape Structural Mechanics and Practice (3)
GIS and Urban Spatial Analysis (3)
Ecological survey and analysis (3)
Understanding of Landscape Architectural Profession(3)
Landscape Architecture Field Practice 1 (2)
Environmental Openspace Design (3)
Landscape Architecture Construction (3)
Case Study on Contemporary Landscape Project (3)
Landscape Maintenance and Practice 1 (3)
Ecological restoration planning (3)
Landscape Architectural Design 2 (4)
Park Planning and Design Studio (3)
Urban Woodlands Planning (3)
Cost Estimate in Landscape Architecture (3)
Space Composition of traditional landscape architecture(3)
Site Design and Practice (3)
Climate change informatics (3)
Landscape Aesthetics & Design Issues (3)
landscape assessment (3)
Cultural Property and Practice (3)
Theory of Urban and Regional Planning (3)
Landscape Facilities Structural Design (3)
Landscape Maintenance and Practice 2 (3)
Environmental Impact Assessment (3)
Landscape Architecture Seminar on Industrial Topics (3)
Park management (3)
Environmental Ecological Climate Plan (3)

▮ Teaching Profession Courses

Research of Educational Text and Teaching (3)
Method of Plant Resources and Landscape Architecture (3)
Educational Theories in Plant Resources and Landscape Architecture (3)

■ Careers

Graduates may seek employment in the Ministry of Construction and Transportation, Ministry of Environment, Ministry of Government Administration and Home Affairs, local governments, Korea National Housing Corporation, Korea Land Corporation, Urban Development Corporation, Korea Highway Corporation, and private enterprises for landscape planning, design, construction, and management.

Department of Bioenergy Science and Technology

Contact Information
Phone: +82-62-530-2043
Fax: +82-62-530-2047
E-mail: A4705@jnu.ac.kr
URL: http://bioenergy.jnu.ac.kr/

What is Bioenergy Science and Technology?

Global demand for energy has tremendously increased due to the accelerated growth of the human population and the improvement of human life. Although natural gas and atomic energy have been utilized to supply a portion of the energy demand, petroleum resources will become depleted within this century. In addition, the increased consumption of fossil fuels will steadily increase emissions of carbon dioxide, augmenting greenhouse gases in the atmosphere. Thus, energy and the environment are inextricably linked. Reducing dependence on fossil fuels and imported oil is a challenge of vital importance to national security, the economy, and the environment. Bioenergy, based on biomass, has drawn attention as a sustainable energy source that may help cope with the rising prices of fossil fuels, and address environmental concerns about greenhouse gas emissions. Bioenergy science and technology is about basic biological and biochemical science on plant biomass and enabling technology, not only for the improvement of the yield and quality of cellulosic biofuels and biodiesels, but also for the production of biofuels.

Department of Bioenergy Science and Technology

The Department of Bioenergy Science and Technology was newly established in 2010 and selected as part of the World Class University (WCU) system by the Ministry of Education, Science and Technology until 2013. We will establish a pioneering education system for expanding learning opportunities from various academic backgrounds, such as plant biology, molecular biology, chemistry, biochemistry, biotechnology, biochemical engineering, and bioprocess engineering. This innovative education system is intended to accelerate basic research in the development of sustainable bioenergy, including cellulosic ethanol and other biofuels. The final aim of this new department is to provide experts with scientific and technological knowledge that will afford economic and social benefits to agriculture and the environment and, thus, improve the quality of life.

Professors

- Kim, Jungmook, Ph.D.
  [Plant Molecular Cell Biology, jungmkim@jnu.ac.kr]
- Bae, Hyeun-Jong, Ph.D.
  [Bioenergy & Biotechnology, baehj@jnu.ac.kr]
- Ahn, Sung-Ju, Ph.D.
  [Energy Crop Physiology, asjsuse@jnu.ac.kr]
- Lee, Won-Heong, Ph.D.
  [Microbial Engineering, wonhlee@jnu.ac.kr]

• Cho, Chul-Woong, Ph.D.
[Environmental Chemical Engineering, choicejoe@jnu.ac.kr]

• Lee, Dong Wook, Ph.D.
[Plant Cellular Systems Biology, ldw4844@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

■ What Do You Study?

▮ General Courses

General Biology 1 (3 credits)
Mathematics 1 (3)
General Chemistry 1 (3)
Career Plan and Self Understanding (2)
General Chemistry 2 (3)

▮ Core Courses

Biochemistry 1 (3)
Bioenergy (3)
Plant Physiology 1 (3)
Industrial Microbiology (3)
Biochemical Engineering (3)

▮ Electives

Introduction to Bioenergy Science and Technology (3)
General Plant Biology & Lab (3)
Campus Life and Career Roadmap (2)
Molecular Biology 1 (3)
Cell Biology1 (3)
Organic Chemistry 1 (3)
Molecular Biology 2 (3)
Biochemistry 2 (3)
Physical Chemistry (3)
Organic Chemistry 2 (3)
Genetics (3)
Cell Biology 2 (3)
Plant Ecology and Environment (3)
Bio-Nano Technology (3)
Bioinfomatics (3)
Principles and Methods of Gene Manipulation (3)
Plant Molecular Biotechnology (3)
Bioenergy Engineering Capstone Design 1 (3)
Biostatistics (3)
Bioprocess Engineering (3)
Quantitative Analysis (3)
Enzymology (3)
Plant Physiology 2 (3)
Environment and microbiology (3)
Bioenergy Engineering Capstone Design 2 (3)
Current Biomass Science (3)
Plant Seed Science (3)
What are Bioactive materials (3)
Microbial Engineering (3)
Fermentation Technology (3)
Microbial metabolic regulation engineering (3)
Crop physiology (3)

■ Careers

Bioenergy Science and Technology job opportunities include: biofuel or bioengineering or energy-related corporations, professors or researchers in plant biology, biology, or bioengineering, rural development administration staff, National Institute of Agricultural Biotechnology, Korea Research Institute of Bioscience and Biotechnology, agricultural research and extension services staff, Ministry of Agriculture and Forestry staff, National Plant Quarantine staff, Agricultural Cooperative Association staff, Agricultural Technology Center staff, the private sector (biotechnology and bioengineering or related) staff, etc.

Department of Convergence Biosystem Engineering

Contact Information
Phone: +82-62-530-2150
Fax: +82-62-530-2159
URL: http://bse.jnu.ac.kr/

What is Convergence Biosystems Engineering?

The Department of Convergence Biosystems Engineering deals with mechanical, artificial intelligence, electricity, electronics, robots, materials, and bioengineering for biological systems such as plants, animals, and humans. In other words, it deals with knowledge necessary for unmanned and intelligent production of biological resources, advanced biomaterialization, and digital informatization, and fosters convergent professional talents with both agricultural and life sciences and engineering knowledge. Through this, we aim to contribute to the development of the future agricultural and bio industries.

Department of Convergence Biosystems Engineering

The Department of Convergence Biosystems Engineering conducts education and research on advanced biosystems that combine engineering technologies such as machinery, electrical/electronic, computer and information and communication. Key research areas include intelligent agricultural machinery, smart farms and plant factories, robots and artificial intelligence, biomaterials and nanobioengineering, and biofabrication, and are gradually expanding to bio, food, energy, environment, and healthcare.

Students learn to apply fundamental knowledge of biological and physical sciences, mathematics, and engineering principles to formulate and solve engineering problems. Engineering design is integrated throughout the curriculum, along with opportunities to develop communication, learning, and teamwork skills, culminating in a capstone design experience. Electives in the curriculum allow students to specialize in:

Agricultural Machinery Development and Automation: Development and automation of agricultural machines for crop planting, harvesting, and processing.

Biological Engineering and Bionanotechnology: Development of innovative bio-platforms for improving life of living systems.

Students select courses with the assistance of faculty advisors on an individual basis. Faculty members also assist with professional development and job placement for students.

Professors

- Young-Soo Choi, Ph.D.
  [Professor, Biosystems Machine Control, y-choi@jnu.ac.kr]
- Kyeong-Hwan Lee, Ph.D.
  [Professor, Sensors and Intelligent Biosystems, khlee@jnu.ac.kr]
- Hyoung Il Son, Ph.D.
  [Professor, Human-Centered Robotics

and Automation, hison@jnu.ac.kr]
- Jangho Kim, Ph.D.
  [Professor, Nanoengineered Biomaterial Systems, rain2000@jnu.ac.kr]
- Hee-Gyeong Yi, Ph.D.
  [Assistant Professor, Bio-Manufacturing Systems, hgyi@jnu.ac.kr]
- JooSeon Oh, Ph.D.
  [Assistant Professor, Off-road mobility system, jooseon.oh@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 18 credits from core courses.

■ What Do You Study?

▮ Core Courses

Electronic Circuit for Biosystems and Practice (3)
Field Machinery and Practice (3)
Biomechanics and Tissue Engineering and Practice (3)
Biosystems Robotics (3)
Environment Control in Biosystems Structures (3)
Computer Aided Engineering Design (3)

▮ Electives

CAD (3)
Engineering Mathematics (3)
Biology for Biosystems Engineering (3)
Fundamental Science for Biosystems (3)
Applied Calculus (3)
Statics (3)
Computer Programming (3)
Manufacturing Processes (3)
Dynamics (3)
Biosystems Engineering Lab (3)
Biosystem Mechatronics and Practice (3)
Fluid Mechanics for Biosystems (3)
Mechanics of Materials for Biological Applications (3)
Biosystems Modeling and Practice (3)
Bio-Industrial Machine Design (3)
Mechanics of Bio-Industrial Machine (3)
Thermodynamics (3)
Fluid Machinery (3)
Precision Agricultural Engineering(3)
Tractor Engineering and Practice (3)
Design of Biosystems Engineering (3)
Field Practice in Biosystems Engineering 1 (2)
Introduction to computer engineering (3)
Biosystem Measurements (3)
Field Practice in Biosystems Engineering 2 (2)
Seminar on Industrial Topics 1 (1)
Biosystems Automation (3)
Capstone Design of Biosytstems I (3)
Environmental Control in Agricultural Structures (3)
Bio-Resource Process Engineering (3)
Nanobioengineering (3)
Seminar on Industrial Topics 2 (1)
Capstone Design of Biosytstems 2 (3)
Sensors for Bio-industry (3)
Hydraulics System Engineering (3)

■ Careers

Graduates who obtain a broad engineering background through the Department's program are sought after by a wide variety of employers. The following is a list of current employers:

- Government Agencies
- Korea Rural Community Corporation
- Korea Water Resources Corporation
- Rural Research Institute
- Korea Electric Corporation
- Korea National Housing Corporation

- Korea Highway Corporation
- Korea Railroad
- Construction Companies
- Agricultural Machinery Manufacturers
- Agricultural Machinery Research Institute
- Korea Hydro and Nuclear Power Corporation
- Korea Gas Corporation
- Mechanical and Electrical Engineering-related Companies
- Food Production Companies
- Crop Storage and Handling Companies
- Agricultural Production Consultant Companies
- Korean Army and Police

College of Culture and Social Sciences

Contact Information
Phone: +82-61-659-7505~7508
Fax: +82-61-659-7509
URL: http://yculture.jnu.ac.kr

Division of International Studies

- Department of English
- Department of Japanese Studies
- Department of Chinese Studies

Division of Global Business

- Major of International Trade and Commerce
- Major of Global Business

Department of Logistics and Transportation

Division of Culture Contents

- Department of Multimedia
- Department of Electronic Commerce

Department of Culture and Tourism Management

Affiliated Research Centers

- Yi Sunshin Marine Culture Research Center
- Information Technology Research Institute
- East Asia Institute

Division of International Studies

__Contact Information
Tel: +82-61-659-7580
Fax: +82-61-654-3560
E-mail: A0331@jnu.ac.kr
URL: http://inter.jnu.ac.kr/inter/index.do

■ What is International Studies?

The Division of International Studies provides a solid background in regional studies and an understanding of foreign languages for students who aspire to be international experts of the 21st century.

■ Division of International Studies at Chonnam National University

The Division of International Studies offers comprehensive interdisciplinary courses related to global concerns in English, Chinese, and Japanese. With a remarkable combination of faculty, staff, programs, and state-of-the-art facilities, the division provides the best education possible for motivated students who aspire to be international leaders of the 21st century.

Considering these educational objectives, the division offers a variety of programs ranging from overseas language study and internships to special lectures for employment.

■ Professors

- YoungSoon Cho, Ph.D.
  [Professor, Department of English ysncho@chonnam.ac.kr]
- Sung-Kap Yang, Ph.D.
  [Professor, Department of English yangtop@chonnam.ac.kr]
- Kwan-Young Oh, Ph.D.
  [Professor, Department of English okyoung@chonnam.ac.kr]
- Han-Nae Yu, Ph.D.
  [Associate professor, Department of English ambrosia@gmail.com]
- Ji-hyun Kang, Ph.D.
  [Professor, Department of Japanese Studies, jihyun@chonnam.ac.kr]
- Ji-yeon Won, Ph.D.
  [Professor, Department of Japanese Studies, jywon@chonnam.ac.kr]
- Byeong-hoon Lee, Ph.D.
  [Professor, Department of Japanese Studies, leebh@chonnam.ac.kr]
- Kyung-kuk Kim, Ph.D.
  [Professor. Department of Chinese Studies, kmkyk@chonnam.ac.kr]
- Seung-hyun Choi, Ph.D.
  [Professor, Department of Chinese Studies, cchx5278@chonnam.ac.kr]
- Won-il Cho, Ph.D.
  [Professor, Department of Chinese Studies, mengzi@chonnam.ac.kr]
- Young-uk Um, Ph.D.
  [Professor, Department of Chinese Studies, uyu123@chonnam.ac.kr]
- Jin-hee Song, Ph.D.
  [Professor, Department of Chinese Studies, fu286599@chonnam.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits. Students may normally earn 18 credits per semester (up to 21 credits in exceptional cases). Students are also required to pass a graduation exam and demonstrate proficiency in a foreign language.

■ What Do You Study?

English Studies Major Courses

Understanding English & Americans (3)
World Englishes (3)
Survey on British Literary Works (3)
English Grammar (3)
Tour Guide English (3)
Media English (3)
Practical English (3)
English Sentence Structure (3)
English Pronunciation 1 (3)
Introductory English Linguistics (3)
English Conversation 1 (3)
British & American Drama (3)
English Listening Comprehension (3)
English Vocabulary (3)
English Conversation 2 (3)
Survey on American Literature (3)
Culture of American Society (3)
Understanding of British and American Poetry (3)
Cultural Background of the English Language (3)
English Semantics (3)
English Conversation 3 (3)
English Composition (3)
Literature and Film (3)
Business English 1 (3)
Understanding British and American Novels (3)
English Discourses (3)
English to Korean Translation (3)
History of English (3)
Business English 2 (3)
Essay Writing in English (3)
Presentation English (3)
Reading English Prose (3)
English Syntax (3)
Environmental Writings (3)
Current English (3)
Practice of Practical English (3)
Topics in English Linguistics (3)
Interview English (3)

Chinese Studies Major Courses

Chinese for Beginning (3)
Understanding of Chinese Culture (3)
Basic Chinese conversation (3)
Elementary Chinese vocabulary (3)
Exposition of Chinese classics (3)
Chinese Grammar (3)
Basic Chinese Conversation 2 (3)
Reading Comprehension on Ancient Chinese Words (3)
Trip to Chinese Literature (3)
Chinese Reading Comprehension (3)
Intermediate level Chinese conversation (3)
Practice of Chinese Listening (3)
Intermediate Chinese vocabulary (3)
History of Exchange in east and west culture (3)
Chinese Learned via Film (3)
Appreciation of Chinese Classical Poetry (3)
Intermediate Chinese Conversation 2 (3)
Special Course in Chinese Language Study (3)
Beginning level HSK (3)
History of Chinese Literature (3)
Selective reading on Chinese current affairs (3)
Advanced Chinese Conversation (3)
Chinese composition1 (3)
Strolling through Chinese History (3)
Intermediate level HSK (3)
Appreciation of Chinese Classical Prose (3)
China and Overseas Chinese (3)
Reading Chinese Literature (3)
Chinese composition2 (3)

Chinese Translation and Interpretation (3)
Understanding of Chinese philosophy (3)
Tourism Chinese (3)
Understanding the Chinese Economy (3)
Reading Chinese Newspaper (3)
Chinese Politics and Diplomacy (3)
Special Course in Chinese Regional Study (3)
East Asian Regional Study (3)
Chinese Interview Practice (3)
The Culture of Chinese Tea and Healing (3)
Practical Trade Business Chinese (3)

Japanese Studies Major Courses

Japanese Literature and Sensitivity with Media (3)
Japanese for Practice (3)
Biginner for japanese conversation1 (3)
Introduction to Japan Study (3)
Japanese Grammar 1 (3)
Biginner for japanese conversation2 (3)
Tourism Japanese Exercise (3)
Japanese Grammar 2 (3)
Japanese Listening Exercise (3)
Japanese Pre-modern History (3)
Beginner's Japanese Conversation (3)
Modern Japanese History and Relationship between Korea-Japan (3)
Japanese Culture Reading (3)
Japanese Phrase Practice (3)
Intermediate Japanese conversation1 (3)
Beginner‘s Japanese Composition (3)
Practical Japanese (3)
Japanese Reading Comprehension (3)
Intermediate Japanese Composition (3)
Intermediate Japanese Conversation2 (3)
Japanese Document Preparation for Employment (3)
Modern Japanese politics and society (3)
Advanced Japanese Composition (3)
Advanced Japanese conversation (3)
Business Japanese (3)
Understanding of Japanese Economy (3)
Contemporary Japanese society and popular culture (3)
Japanese of Current Topics (3)
Japanese literature Storytelling and Cultural Tourism industry (3)
Expert in Japanese· Translation Exercise (3)
Japanese interview for business communication (3)
Business practice between Korea and Japan (3)
Journey to Japan based on culture and heritage (3)
Understanding of Japanese Study (3)
Appreciation of Japanese theater and art (3)
Special Lecture on Contemporary Japanese (3)

■ Careers

Students who have successfully completed the Division programs have worked for leading companies such as GS Caltex, Yeocheon NCC, Kumho PandG, LG Petrochemical Plant, Honam Oil Company, BASF, Kwangyang LST, Suncheon Carf, Lotte Hotel, Doobee Trade Company, Cam Zone Trade Company, J&D International, Incheon International Airport, and POSCO. Many graduates have worked as school teachers, public officers, interpreters, tour guides, flight attendant and professional translators.

Division of Global Business	*Contact Information* Tel: +82-61-659-7530, 7630 Fax: +82-61-659-7639 E-mail: A2069@jnu.ac.kr URL: http://cur.jnu.ac.kr

■ Division of Global Business

The Division of Global Business aims to produce talented people with and international sense to lead the era of globalization based on the international society and global management. Also, we cultivate global talents with business and economics knowledge, trade practice and foreign language skills. Our division composes majors in international trade and global business, and focuses on nurturing global business talents who could be advantageous for employment and start-up through differentiated international management, economy, trade practice and global business courses and scholarship support.

In the first year of the Division of Global Business, students take the liberal arts courses and the basic courses of Division of Global Business. As students advance to the second year, they select one major from International Trade and Global Business to study in-depths for each major.

■ Major of International Trade and Commerce

A major in International Trade and Commerce is a practical discipline that includes both theoretical and practical knowledge. The International Trade and Commerce Major aims to help students understand rapidly changing trade environments at home and abroad and to foster professional trade personnel with the qualities to enhance Korea's status as the center of global trade. A major in International Trade and Commerce is based on the vision to pursue excellence in education with an aim to cultivate experts in international business management and international economic activities. Graduates are equipped with expertise relating to global business, both in theory and in practice. They are capable of applying such expertise to growing their problem-solving skills in the real world and contributing innovatively to society or organizations for which they work.

■ Major of Global Business

A major in Global Business was established to provide an education related to Korean language and culture for international students, as well as theory and practice of global business to facilitate employment for domestic and foreign students. The major aims to nurture global business professionals who can contribute to the development of national and regional economy in the global era. In this major, students cultivate an ability of theoretical analysis on business, economy, international relations, language and culture, and they acquire global business manners and marketing knowledge. As a curriculum, students learn about

Business Trade English, Marketing Principles, International Relations Theory, Popular Culture Theory and more as major basics. Also, as major advanced, they will learn about Global Society and Korea, International Business Strategy, and Comparative Culture Theory and more courses regarding Global Business. Graduates can contribute to organizations in the global business field, such as civil servants, business-related public and state institutions, as well as entering domestic and foreign graduate schools.

■ Professors

- Cheol Lee, Ph.D.
  [Professor, International Economics, clee1@chonnam.ac.kr]
- Bok-jae Park, Ph.D.
  [Professor, International Commerce, bjpark73@chonnam.ac.kr]
- Gil-sung Kim, Ph.D.
  [Professor, International Business, kikis@chonnam.ac.kr]
- Young-moon Kang, Ph.D.
  [Professor, International Commerce, wto3@chonnam.ac.kr]
- Seok-gang Park, Ph.D.
  [Professor, Strategic Management, parksg1214@chonnam.ac.kr]
- In-hye, Lee, Ph.D
  [Assistant Professor, Korean Studies & Korean Language, Education, leei@chonnam.ac.kr]

■ Degree Requirements

Students are required to take a total of 130 credits to graduate: 27 credits from cultural studies courses, 3 credits from required cultural studies courses, 21 credits from core major courses, and more than 39 credits from elective major courses. Students are also required to submit a thesis (or acquire a certificate regarding the business field) and demonstrate proficiency in English.

■ What Do You Study?

▌Division of Global Business Courses

Introduction to International Trade (3)
Introduction to International Business (3)
Introduction to Economics (3)

▌Major of International Trade and Commerce Courses

International Business (3)
International Finance (3)
Business Communication (3)
Business and Management in East Asia (3)
Distribution and Inauguration of Trading Companies (3)
Practical Letter of Credit (3)
Principles of Accounting (3)
Asian Culture and Business (3)
International Finance (3)
International Manner and Overseas Areas Studies (3)
Microeconomics (3)
Electronic Trade Simulation (3)
Trade English (3)
Case Studies of Global Companies (3)
Principles of Marketing (3)
International Tourism Economics (3)
International Commerce (3)
International Political Economy Seminar (3)
Money and Banking (3)
Macroeconomics (3)
International Trade Practice (3)
International Negotiation and Business Contract (3)
International Marketing Strategy (3)
Verbal Expression in English for International

Commerce 1 (3)
Verbal Expression in English for International Commerce 2 (3)
Verbal Expression in English for International Commerce 3 (3)
Verbal Expression in English for International Commerce 4 (3)
Coporate Finance Policy (3)
International Economics (3)
International Logistics and Exhibition Convention (3)
Internatonal Business Strategy (3)
International Trade Seminar with CEOs(Capstone Design) (3)

▌Major of Global Business Courses

Principles of Accounting (3)
Strategic Management (3)
Business Statistics (3)
Globalization (3)
Global Business Korean (3)
Research Methods (3)
Business Trade English (3)
Multinational Enterprise Analysis (3)
Principles of Marketing (3)
Public Diplomacy (3)
Management and Trade Korean (3)
Asian Economy (3)
Modern Theory of Management (3)
Global Business Strategy (3)
Popular Culture (3)
Global Business Seminar (3)
International Finance (3)
Global Marketing (3)
Global Society and Korea (3)
Global Business Organization (3)
Political Economy of Japan (3)
Cross-Cultural Management (3)
International Financial Management (3)
Global Advertising and Brand Strategy (3)
Introduction to International Relations (3)
Innovative Management (3)
International Business Strategy and Organization (3)
Technical Management Strategy (3)
Asian Market Research(Capstone Design) (3)
Korean Studies Seminar (3)
International Political Economy (3)
Economics of International Development (3)

■ Careers

As the division is related to commerce and business, graduates can find jobs in diverse fields. The major of International Trade and Commerce cultivates experts in international trade, distribution management, cyber trading, foreign exchange management, and e-commerce management. The graduates work mainly in the field of international trade-related business in various companies, and financial institutions. Moreover, they can work as public servants in local and central government related to trade and commerce. The major of Global Business cultivates experts in international business and marketing. The graduates work in the field of international business-related business in various companies and financial instituitions. Moreover, they can work as public servants in local and central government related to business.

Department of Logistics and Transportation

Contact Information
Tel: +82-61-659-7340
Fax: +82-61-659-7359
E-mail: mihoe@jnu.ac.kr
URL: http://logistics.jnu.ac.kr

■ Department of Logistics and Transportation

Logistics and Transportation is an area of study highlighted as a leading field of the 21st century. Performance of businesses as well as national competitive power is related to logistics and transportation. We aim to strengthen international competitiveness by optimizing logistics systems in both public and private sectors, and by improving transportation problems over the country.

Many companies surrounding Yeosu City where our department is located, such as the Gwangyang container terminal, the free economic zone in the Gwangyang Bay, the Yeosu National Industrial Complex, and the Yulchon Regional Industrial Complex, provide internship and employment opportunities for graduates.

■ Professors

- Byungin Park, Ph.D.
  [Professor, Business Logistics, bipark@chonnam.ac.kr]
- Sang-gu Kim, Ph.D.
  [Professor, Traffic Operations, kim-sg@chonnam.ac.kr]
- Jong-wook Bae, Ph.D.
  [Professor, Logistics System, jwbae@chonnam.ac.kr]
- Chang-hyun Kim, Ph.D.
  [Professor, Logistics Information Systems, chkim@chonnam.ac.kr]
- Chang-ho Choi, Ph.D.
  [Professor, Freight Transportation, jc1214@chonnam.ac.kr]
- Seung-sik Shin, Ph.D.
  [Professor, Logistics Policy & Environment Logistics, shin2han@chonnam.ac.kr]

■ Degree Requirements

Students are required to take a total of 130 credits to graduate: 30 credits from cultural studies courses, 21 credits from core major courses, and more than 39 credits from elective major courses. Students are also required to submit a thesis (or pass a graduation exam) and demonstrate proficiency in a foreign language.

■ What Do You Study?

Principles of Management(3)
Understanding of Economics(3)
Introduction to logistics(3)
Business Statistics(3)
Introduction to Transportation(3)
Global logistics trend(3)

Management Science(3)
Transportation Planning(3)
Logistics Data Analysis(3)
Logistics Laws(3)
Logistics Accounting(3)
E-commerce transport management(3)
Traffic safety(3)
Urban Logistics(3)
Logistics Management/Supply Chain Management(3)
A Lecture on Logistics Big Data(3)
Warehousing and Material Handling Management(3)
Research Methodology(3)
Transportation Demand Analysis(3)
Global Supply Chain Management(3)
Capstone Design(3)
Logistics and e-Business(3)
Service Management(3)
International Transport of goods(3)
Economic Decision Analysis(3)
Traffic Operation(3)
Purchasing Logistics Management(3)
Logistics Facility Planning(3)
Introduction to Distribution Logistics Management(3)
Port Operations and Management(3)
Maritime Transportation(3)
Traffic Impact Evaluation(3)
Logistics Information System(3)
Advanced logistics technology(3)
Integrated Logistics Management(3)
Supply Chain Management(3)
Introduction to Logistics Simulation(3)
Traffic Theory and Practice(3)
Green Logistics(3)

■ Careers

Graduates of the department of logistics and transportation can mainly enter not only the logistics sector but also the transportation sector. At the logistics sector, they can go into logistics-related organizations such as international shipping companies, forwarders, couriers, port authorities, terminal operating companies as well as general companies as logistics officers after obtaining the certifications such as "Certified Professional Logistician" and "International Certified Professional Logistician". In the transportation sector, they can advance transport-specialized officials, traffic-related authorities and corporations as well as engineering companies after acquiring professional qualifications such as "Engineer Transportation" and "Industrial Engineer Transportation".

Division of Culture Contents

Contact Information
Tel: +82-61-659-7440
Fax: +82-61-659-7449
E-mail: A0442@jnu.ac.kr
URL: http://ccd.jnu.ac.kr

What is Culture Contents?

The Division of Cultural Contents refers to the diverse range of culture based arts being stored, distributed and enjoyed in the form of visual and digital media in the genre of games, animation, music, characters, broadcasting, and e-books.

Division of Culture Contents at Chonnam National University

The Departments of Multimedia and Electronic Commerce were merged into the school of Culture Contents in 2006. The Division of Culture Contents is now training undergraduate students to compete with world professionals in the field of digital contents for culture industry, and IT infrastructure for a ubiquitous society. The school aims to train students to be leading specialists in all fields of the culture industry, including creation of digital contents, mobile software, and electronic commerce. The school's students can obtain excellent qualifications in Gaming Graphics, Multimedia Content Authorship, Network Expertise, Web Page Expertise, Web Mastery, OCP(Database), Java Programming(SCJP) and CPL.

Professors

- Soon-Hee Han, Ph.D.
  [Professor, Compiler and Mobile Systems, shhan@jnu.ac.kr]
- Young-Man Kang, Ph.D.
  [Professor, Computer Network and Digital Broadcasting Systems, ymkang@jnu.ac.kr]
- Jun-Seok Lee, Ph.D.
  [Professor, MIS and Computer Games, iexpert@jnu.ac.kr]
- Min-Suk Yoon, Ph.D.
  [Professor, MS and IS, msyoon@jnu.ac.kr]
- Hee-Teak Ceong, Ph.D.
  [Professor, Distributed Systems and Multimedia, htceong@jnu.ac.kr]
- Yong-Min Kim, Ph.D.
  [Professor, Information Security and Electronic Commerce Systems, ymkim@jnu.ac.kr]
- Jeong-Seon Park, Ph.D.
  [Professor, Multimedia Programming and Pattern Recognition, jpark@jnu.ac.kr]
- Seung-Bong Park, Ph.D.
  [Professor, e-Business, parks@jnu.ac.kr]
- Won-Sik Jung, Ph.D.
  [Assistant Professor, Film and Digital Media, creator@jnu.ac.kr]
- In-Seop Na, Ph.D.
  [Associate Professor, Artificial Intelligence/Big Data Processing, ypencil@jnu.ac.kr]
- Byung-il Moon, Ph.D.
  [Professor, Physical, m20011002@jnu.ac.kr]

■ Degree Requirements

- Major Requirements: At least 18 credits
- Major Electives: 30 credits or more
- General Education Requirement: 3 credits or more
- General Education Electives: 27 credits or more
- General Electives: 31 credits or more
- Graduation Credits: At least 130 credits or more

■ What Do You Study?

Division of Culture Contents

▮ Major Requirement (6)

Introduction to Electronic Commerce (3)
Introduction of Multimedia and Practice (3)

▮ General Education Requirement (3)

Introduction To Logic (3)

▮ Major Courses

Computational Thinking (3)
Web Production and Practice (3)

Department of Multimedia

▮ Major Requirements (12)

Multimedia Data Structure (3)
Practice of Multimedia Authoring (3)
Programming Language and Laboratory (3)
Web-Server Implementation and Practice II (3)

▮ Major Courses

Basic of video and animation production (3)
Contents Design Practice (3)
Contents Management (3)
Creative Engineering Design1(Capstone design) (3)
Creative Engineering Design2(Capstone design) (3)
Creative Planning (3)
Cultural Content Industry Research (3)
Game Graphics (3)
Game Planning and Analysis (3)
Image Processing Practice (3)
Intelligent App Application and Practice (3)
Introduction to Artificial Intelligence and Practice (3)
Introduction to Mobile System (3)
Mobile Application and Practice (3)
Multimedia Big Data Processing (3)
Multimedia Convergency Practice (3)
Multimedia Data Processing and Practice (3)
Multimedia Database (3)
Multimedia Image Planning (3)
Multimedia Information Communication (3)
Multimedia Programming and Practice (3)
Multimedia Project (3)
Multimedia System (3)
Multimedia System Analysis and Design (3)
Operation System Practice (3)
Production of Portfolio (3)
Production Theory of Game and Practice (3)
Research on Network game (3)
Video Prodution Techniques (3)
Visual Content Design (3)
Visual Content Storytelling (3)
Web Client Producing and Practice (3)
Web-Server Implementation and Practice Ⅰ (3)
Windows Programming Practice (3)

Department of Electronic Commerce

▮ Major Requirements (12)

e-Research & Methodology (3)
Introduction to Information Technology (3)
Electronic Commerce Web Programming and Practice (3)
Electronic Commerce Design 1(Capstone design) (3)

▮ Major Courses

Artificial Intelligence (3)
Basics of Web Programming (3)
Basic Operating System (3)
Big Data Analysis (3)
Business Start-up & Technology Management(3)
Customer Relationship Management (3)
Data Science (3)

Data Structure Application and Practice (3)
Database Design and Management (3)
Database System (3)
Decision Making (3)
Digital Contents Business (3)
e-Business Strategy(3)
Electronic Commerce Design2(Capstone design) (3)
Electronic Commerce Platform and Practice (3)
Electronic Commerce System Analysis And Design (3)
Electronic Commerce System Implementation (3)
Enterprise Resource Planning (3)
Field Practice1 (2)
Field Practice2 (2)
Financial Analysis (3)
Internet Marketing (3)
Introduction to Information Security (3)
Logistics & Distribution (3)
Management Information System (3)
Mobile Business (3)
Mobile Introduction (3)
Mobile Programming Practice (3)
Principles of e-Management (3)
Programming Data Structure (3)
Project Management (3)
Security for Electronic Transaction (3)
Software Design and Practice (3)
System Information Security (3)
Web Information Retrieval (3)

■ Careers

After graduation, students are expected to be engaged in all aspects of the IT-related industry such as multimedia, mobile, or game programming to name but a few.

In addition, graduates have become high-level civil servants or academics. Many of our graduates can be found playing important roles in the IT-related industry.

Department of Culture and Tourism Management

Contact Information
Tel: +82-61-659-7640
Fax: +82-61-659-7649
E-mail: kimdan01@jnu.ac.kr
URL: http://ctm.jnu.ac.kr

■ What is Culture and Tourism Management?

The Department of Culture and Tourism Management is a distinct department combining culture with tourism, and aims to train global creative talent to promote local tourism such as cultural and marine tourism, and contribute to the tourism industry as a strategic industry to enhance national competitive power. The tourism sector is expanding as much as its importance with more public attention. The department of culture and tourism management at Chonnam National University was established with community needs and social change.

■ Department of Culture and Tourism Management at Chonnam National University

The Department of Culture and Tourism Management is operated as a curriculum extending beyond the scope of tourism management, and this differentiation will provide more opportunities for students after graduation. In addition, stationed in Yeosu city which is the best tourist destination in Korea, it has an optimal learning environment with plenty of cultural tourism resources. We will train cultural tourism professionals by providing field education and practical education on various subjects, and will continue to develop school to work education programs reflecting regional characteristics to expand high-quality employment opportunities for students.

The Culture and Tourism Management Department operates a customized talent training curriculum for each grade to maximize employment capabilities, and implements team coaching by department professors after segmenting students into specific areas of interest. In particular, we plan to actively support the employment of public companies and public institutions in preparation for the mandatory hiring of local talent by public policy.

■ Degree Requirements

Students are required to take a total of 130 credits to graduate: 30 credits from liberal arts (3 credits of compulsory subject and 21 credits of elective subjects), 39 credits form elective major courses, and 21 credits from intensive major courses. Students are also required to pass a graduation exam (or pass four other options and demonstrate proficiency in a foreign language.

■ What Do You Study?

Introduction of Tourism (3)
Introduction to Culture Tourism Content (3)
English for Cultural Tourism (3)
Tourism Resources (3)
Storytelling and Cultural Tourism (3)
Tourism Law (3)
Theory of Culture Tourism (3)
Geography of Tourism (3)
Tourism Accounting (3)
Humanistic Understanding of Tourism (3)
Tourism Transportation (3)
Theory of Urban Tourism (3)
Tourism Marketing (3)
Financial Management of Tourism (3)
Venture of Management of Tourism (3)
Cultural Arts and Tourism (3)
Local Community and Festival Management (3)
Theory of Leisure (3)
Analysis of Tourism Data (3)
Capstone Design of Tourism (3)
Theory of Convention and Exhibition Planning (3)
Field Practice 1 (3)
Hospitality Management (3)
International Tourism (3)
Event and Convention Marketing (3)
Theory of Consumer Behavior (3)
Theory of Tourism Strategy Management (3)
Theory of Tourism Market Survey (3)
Service Management of Cultural Tourism (3)
Exhibition & Convention Industry Management (3)
Economics of Tourism (3)
Tourism and Culture Anthropology (3)
Theory of Tourism Development (3)
Marine Tourism (3)
Urban Regeneration and Tourism (3)
Field Practice 2 (3)

■ Careers

After graduation, students will go into following fields;

- Public enterprises, public institutions (Tourism Foundation, Cultural Foundation, Tourism Organization, public officials, etc.)
- Tourism companies (MICE companies, Hotels, Travel agencies, Food-service companies, etc.)
- Culture industry (Culture and Arts Agency, Arts Management Support Center, etc.)
- Tourism-related enterprises (Cosmetics, Duty-free shops, Franchises, etc.)

■ Professors

• Dae-Hyon Kim, Ph.D
[Professor, Urban Planning & Smart Tourism, daehyon@jnu.ac.kr]
• Eun Jeong Noh, Ph.D
[Assistant Professor, Tourism Marketing, Sustainable Tourism, noheun@jnu.ac.kr]
• Joonho Kim, Ph.D.
[Associate Professor, Tourism Strategy, Cultural Tourism, joonho@jnu.ac.kr]
• Hyo-Yeun Park, Ph.D.
[Associate Professor, MICE, hyopark@jnu.ac.kr]

College of Education

Contact Information
Phone: +82-62-530-2305, 2306
Fax: +82-62-530-2302
URL:http://education.jnu.ac.kr

- Department of Education
- Early Childhood Education
- History Education
- Geography Education
- Ethics Education
- Korean Language Education
- English Language Education
- Mathematics Education
- Physics Education
- Chemistry Education
- Biology Education
- Earth Science Education
- Home Economics Education
- Music Education
- Physical Education
- Division of Special Education

Department of Education

Contact Information
Phone: +82-62-530-2340
Fax: +82-62-530-2359
URL: http://educate.jnu.ac.kr

Overview

The Department of Education at the heart of Chonnam National University aims to educate students to be 1) qualified secondary school teachers, 2) competitive researchers and practitioners of secondary education, higher education, industrial education and lifelong education, and 3) highly competent researchers of educational research institutes. To achieve these ends, the department teaches students foundational knowledge and theories to understand and improve educational practices, as well as professional methods to study, design and develop the alternatives. The department puts emphasis especially on enhancing students' ability to logically and scientifically analyze and solve the problems which occur in schools, colleges, companies and lifelong education settings. The department offers students core courses and electives in the areas of educational philosophy, educational history, educational sociology, curriculum development, educational psychology, school psychology, counseling psychology, pedagogy, educational technology, educational evaluation, educational administration, etc. In addition, the department tries to help students adapt to school life, achieve their educational goals, and learn social leadership through various extra-curricular activities such as mentoring programs, learning and career counseling, supervisory programs, voluntary services for communities, and so on.

Undergraduate students can get a teacher's certificate of Educational Study, a high school elective subject after completing all the requirements of the department. Students also can choose other areas of study as their double major in order to get another teacher certificate. Many graduates of the Department of Education are employed as secondary teachers, central or local government officers, college professors, researchers, educational administrators, counselors, instructional designers, etc. Some graduates advance their education by pursuing a master's and/or a doctoral degree in the department.

Professors

- Hoisoo Kim, Ph.D.
  [Professor, Educational Technology, kimh@jnu.ac.kr]
- Sichang Yum, Ph.D.
  [Professor, Educational Evaluation, sichang@jnu.ac.kr]
- Hyeonsook Shin, Ph.D.
  [Professor, School Psychology, shinphd@jnu.ac.kr]
- Min-ho Yeom, Ph.D.
  [Professor, Educational Administration, minho@jnu.ac.kr]
- Jeeheon Ryu, Ph.D.
  [Professor, Educational Technology,

jeeheon@jnu.ac.kr]
- Sung-Hyun Cha, Ph.D.
  [Professor, Educational Finance, shcha@jnu.ac.kr]
- Ju Ri Joeng, Ph.D.
  [Associate Professor, Counseling Psychology, jjoeng@jnu.ac.kr]
- Jumi Lee, Ph.D.
  [Associate Professor, Educational Psychology, jlee@jnu.ac.kr]
- Eun-young Hong, Ph.D.
  [Associate Professor, Philosophy of Education, aporia@jnu.ac.kr]
- Haram Jeon, Ph.D.
  [Associate Professor, Sociology of Education, haraming@jnu.ac.kr]
- Ji Hae Lee, Ed.D.
  [Assistant Professor, Counseling Psychology, leeji@jnu.ac.kr]
- Kyunghee Shin, Ph.D.
  [Associate Professor, Curriculum, khshin5@jnu.ac.kr]
- Robert Otto Davis, Ph.D.
  [Assistant Professor, Educational Technology, rdavis@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 140 credits to graduate. In addition, students should pass a comprehensive examination.

■ What Do You Study?

▮ Core Courses

Educational Psychology (3)
Sociology of Education (3)
Philosophy of Education (3)
Educational Administration (3)
Curriculum Theories and Practices (3)
History of Education (3)
School Counseling (3)
Instructional Technology (3)
Measurement and Assessment in Education (3)
Logical Thinking and Essay Writing in Education (2)
Practical Affairs for the Teaching Profession (2)
Teaching Children with Learning Disabilities (2)
Education Volunteer Service (2)
Student Teaching Internship (2)
School Violence Prevention and Understanding of Students (2)
Instructional Theory of Education (3)
Design and Development of Instructional Materials for Educational Studies (3)
Understanding Education (3)
English for Global Communication 2 (3)
Writing for Self-reflection and Communication (3)
Multimedia and Education (3)
Career Plan and Self Understanding (2)

▮ Electives

Total: 94 credits

▮ Minor Courses

38 credits should be taken.

Early Childhood Education

Contact Information
Phone: +82-62-530-2360
Fax: +82-62-530-2639
URL: http://ecedu.jnu.ac.kr/

■ What is Early Childhood Education?

Early childhood education is defined as educational programs offered for young children under the age of six. Certified early childhood teachers work with young children and their families in kindergartens or child-care centers. The teachers are individuals who are trained and prepared for childhood development, early childhood curricula, parent education, and other content areas related to the education of young children.

■ Department of Early Childhood Education

Established in 1983, the Department has been committed to educating and preparing undergraduate students for teaching careers with professional knowledge, skills, and field experiences needed to become highly effective teachers for young children.

■ Professors

- Mi-Sook Choi, Ed.D.
  [Professor, Child Development and Evaluation, mschoi@jnu.ac.kr]
- Kyung-Sook Kim, Ph.D.
  [Professor, Early Childhood Inclusive Education, kim2366@jnu.ac.kr]
- Kyee-Yum Kwon, Ed.D.
  [Professor, Early Childhood Teacher Education, kwon0301@jnu.ac.kr]
- Hyo-Jin Kim, Ed.D.
  [Assistant Professor, Early Childhood Curriculum and Instruction, kimhyoj@jnu.ac.kr]
- Jeong-Ae Lee, Ed.D.
  [Assistant Professor, Early Childhood Social Education, jalee2021@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 150 credits to graduate.

■ What Do You Study?

▮ Required Courses (minimum 45 credits)

Curriculum (2)
Teaching Method and Technology (2)
Educational Sociology (2)
Educational Psychology (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Introduction to Education (2)
Educational Administration and Management (2)
Introduction to Early Childhood Education (3)

Logic and Essay Writing in Early Childhood Education (2)
Teaching Children with Learning Disabilities (2)
Multimedia and Instructional Materials for Young Children (3)
Play & Play Therapy (3)
Curriculum in Early Childhood Education (3)
Education Volunteer Service (2)
Practical Affairs for the Teaching Profession (2)
Method of studying and Teaching Subject (3)
Instructional Practice in Early Childhood Education (3)
Student Teaching Internship (2)
Parent Education (3)

▮ Electives (minimum 27 credits)

▮ Minor Courses (minimum 14 credits)

■ Careers

Students who complete degree requirements may earn certificates for kindergarten teaching as well as child-care teaching. Most graduates work at kindergartens or child-care centers.

History Education

Contact Information
Phone: +82-62-530-2370
Fax: +82-62-530-2379
URL: http://hisedu.jnu.ac.kr/

What is History Education?

This program offers the subjects of history and history teaching methods to educate students to become history teachers or professional historians.

Major in History Education

The goal of this program is to provide students with various kinds of history courses, including those on Korean history, Asian history, and European history to help them become competent history teachers or professional historians.

Professors

- Young-Hyo Lee Ph.D.
  [Professor, Western History/ History Education, yhlee678@jnu.ac.kr]
- Young-Ok Lee Ph.D. in History
  [Professor, Ming & Qing China, youngok@jnu.ac.kr]
- Kyong-Tae Kim Ph.D. in History
  [Assistant Professor, History of Chosun Dynasty, kimkt@jnu.ac.kr]
- Yeongkwang Jo Ph.D. in History
  [Assistant Professor, Ancient Korean History, joyk@jnu.ac.kr]
- Ji-Hye Shin Ph.D. in History
  [Assistant Professor, Western History, jhyshin@jnu.ac.kr]

Degree Requirements

Students are required to earn 150 credits to graduate, including 48 credits from core courses, 24 credits from electives, and 30 credits from liberal arts courses.

Students must also pass a graduation qualifying test and demonstrate proficiency in a foreign language. Students will be issued a teacher's license when all requirements are satisfied.

What Do You Study?

Core Courses

Introduction to Education
Educational Assessment
Educational Sociology
Educational Administration and Management
Philosophy and History of Education
Curriculum
Educational Psychology
Teaching Methods and Technology
Practical Affairs for the Teaching Profession

Student Teaching Internship
Education Volunteer Service
Teaching Children with Learning Disabilities
Theory and Practice of School Violence Prevention
Introductory Theory of History Education
Teaching of Readings in Western History
A Course on History Logic and Essay Writing
Teaching of Readings in Asian History
Research of Education Text and Teaching Method of History
Readings in Historical Sources
Introduction to Korean History
Introduction to History of East Asia
Introduction to Western History

Electives

Study of Korean History Texts
Seminar in Korean History Education
Topics in Korean History Education
Topics in Asian History Education
Topics in Western History Education
Pre-Modern History of Korea
Pre-Modern History of Europe
Diplomatic History of Korea
Ancient History of East Asia
Pre-Modern History of East Asia
Modern History of Europe
Ancient History of Korea
Medieval History of Korea
Socio-Economic History of Korea
Contemporary History of Europe
Contemporary History of Korea
Current Research Trends and Issues on Korean History
Modern History of East Asia
History of Historiography
Modern History of Korea
Interpretation of Korean Historical Documents
Cultural History of Korea
Intellectual and Cultural History of Korea
Contemporary History of East Asia

Careers

Graduates may become teachers in middle and high schools, as well as historians, curators, and journalists.

Geography Education

Contact Information
Phone: +82-62-530-2380
Fax: +82-62-530-2389
E-mail: spplace@jnu.ac.kr
URL: http://geoedu.jnu.ac.kr/

■ What is Geography Education?

The principal purpose of geography education is to train educators in geography. The department especially focuses on teaching students to comprehend living space on the earth through basic concepts and theories, and to embody knowledge and behaviors desirable for secondary school education. Students who will be future teachers in geography are trained with geographical knowledge about places and locations, regions and spatial interactions, and relationships between human and natural environments. Democratic and patriotic citizenship is also encouraged through a balanced geography education – objective rather than subjective.

■ Major in Geography Education

Students become educated in geographical contents, research, and teaching methods proper for the geography education for secondary schools, and have opportunities and abilities to advance to upper echelons of educational institutions and graduate schools.

Students pursue theoretical matters and other practical phenomena skills as well, usually with field experience that is offered twice a year.

■ Professors

- Jin-Kwan Kim, Ph.D.
  [Associate Professor, Physical Geography, Geomorphology, jinkwankim77@gmail.com]
- Kyong-Hwan Park, Ph.D.
  [Professor, Social and Economic Geography, kpark3@gmail.com]
- Su-Jeong Kim, Ph.D.
  [Assistant Professor, Urban and Cultural Geography, sjkim108@jnu.ac.kr]
- Yong-Gyun Lee, Ph.D.
  [Professor, Regional and Population Geography, yonggyunlee@hanmail.net]

■ Degree Requirements

Students are required to earn 150 credits, with 45 from core courses, 27 from electives, and 24 from liberal arts courses.

Students are required to write a bachelor's thesis and to demonstrate computer and foreign language proficiency. Students will be issued a teacher's license when all but the computer proficiency requirement are satisfied.

What Do You Study?

Core Courses

Introduction to Education
Philosophy and History of Education
Geography Education in Contemporary Society
Understanding of Physical Geographic Environment
Educational Sociology
Educational Psychology
Teaching Children with Learning Disabilities
Education of Geomorphology
Educational Assessment
Educational Administration and Management
Curriculum
Education of Economic Geography
Education of Urban Geography
Theory of Geography Education
Teaching Method and Technology
Education Volunteer Service
Thinking and Writing in Geography Education
Practical Affairs for the Teaching Profession
Research Method and Techniques in Geography
Student Teaching Internship
Theory and Practice of School Violence Prevention

Electives

Education of World Regional Geography
Education of Regional Geography of Korea
Education in Geographic Fieldwork: Level 1
Education in Geographic Fieldwork: Level 2
Education of Tourism Geography
Education of Rural Settlement Geography
Education in Geographic Fieldwork: Level 3
Social Geography Education
Education of Climatology
Education of Cultural Geography
Education of Industrial Location Theories
Education of Regional Geography of America
Education of Historical Geography
Education of Population and Resource Geography
Teaching Practicum of Human Geography
Practices in Physical Geographic Education
International Development and Politics
Education of GIS and Cartography
Evaluation in Geographic Education
Education in Geographic Fieldwork: Level 4
Education in Geographic Fieldwork: Level 5
Education in Geographic Fieldwork: Level 6
Critiques in Geography Education
History of Geography Thought Education
Development Geography
Community-making Education
Environmental Geography Education
Education of Geographic Information Systems (GIS)
Essays Education of Human Geography
Essays Education of Physical Geography
Geographical Education and Geographical thought
World Geomorphology
Method of Geographical Research
Climatic geomorphology
Travel Geography
Research of Geographical Instructional Materials and Media
Political Geography Education
Education on Cities in the World
Education of Regional Geography of Europe-Africa
Education of Regional Geography of Asia-Oceania

Careers

All students are able to obtain the qualifications for the secondary school teachers with graduation. Students can choose from many kinds of jobs related to geography education: second school teachers, administrators, research instructors, GIS specialists, and academic professors.

Ethics Education

__Contact Information
Phone: +82-62-530-2400
Fax: +82-62-530-2409
URL: http://ethicsedu.jnu.ac.kr

■ What is Ethics Education?

The Department of Ethics Education currently offers programs intended for students to become qualified ethics teachers in secondary schools. The purpose of the Department is to study Western ethics, Korean & Eastern ethics, Sociology and teaching methods in moral education, and to cultivate talented teachers with desirable teaching skills in the rapidly changing contemporary society. Graduates work in various fields such as secondary schools, research institutes, government affairs, journalism, and business.

■ Department of Ethics Education

This Department offers courses in pedagogy, ethics, philosophy, and politics for the purpose of cultivating good moral teachers. Other fields such as philosophical anthropology, religion, and sociology are the interdisciplinary basis for ethics education.

The intellectual mission of this Department can be classified into three parts:

Ⅰ. Foundations of Ethics, which encompasses the history of ethics and core concepts in the philosophical study of ethics;

Ⅱ. Ethics in Action, which relates theory to practice in key domains of social life, including bioethics, business and political ethics, and ethics in the public sphere;

Ⅲ. Ethics in Education, which lets students prepare for careers as teachers.

Prospective teachers of ethics education must be trained in the subject matter, practiced in the arts of pedagogy, attuned to the needs of students, and astute to the interplay of theory and practice.

The courses include such issues as the integration of moral values education and civics within the academic curriculum, as well as appropriate and effective methods of classroom management and student discipline compatible with students' moral growth. The main focuses of the courses are teaching methods, students' moral development, moral autonomy, and the assessment of social and moral development.

■ Professors

- Kee-Hyeon Kim, Ph.D.
  [Professor, East Asian Ethics, 47korea@hanmail.net]
- Young-Ran Roh, Ph.D.
  [Professor, Western Ethics, yrroh@hanmail.net]
- Tak-Joon Jung, Ph.D.
  [Professor, Moral Education, jungtj1@hanmail.net]
- Gu-Sup Kang, Ph.D.
  [Professor, Unification Education, gusupkang@gmail.com]

What Do You Study?

Core Courses

- Curriculum (2)
- Teaching Method and Technology (2)
- Educational Sociology (2)
- Educational Psychology (2)
- Philosophy and History of Education (2)
- Educational Assessment (2)
- Introduction to Education (2)
- Educational Administration and Management (2)
- Introduction to Ethics (3)
- Ethical Thoughts in East Asia (3)
- Teaching children with Learning Disabilities (2)
- Democracy and Positive-sum Morals (3)
- Western Ethics and Thoughts (3)
- School Violence Prevention and Understanding of Students (2)
- Practical Affairs for the Teaching Profession (2)
- Education Volunteer Service (2)
- Ethical Thoughts in Korea (3)
- Student Teaching Internship (2)
- Theory of Ethics Education (3)
- Research Method And Techniques in Ethics Education (3)
- Studies on Unification Education (3)

Total Credits: 50

Electives (3)

- Contemporary Moral Issues and Traditional Ethics in Korea
- Communitarianism and ethics
- International relations and ethics
- Modern Ethical Thoughts
- Study of multi-cultural education
- Logics and Ethics Education
- Lao-Zhuang's Ethics Education
- Understanding of moral education
- Teaching-Learning Methodology & Assessment in Moral-Ethical Subjects
- Curriculum and method of moral education
- The purpose of moral education
- A Course on Logic and Essay Writing in Ethics Education
- Moral Psychology and Moral Philosophy
- Readings of the Classics in East Asian Ethics
- Understanding of North Korean society
- Buddhistic Ethics Education
- Classics of the Social thoughts
- Social Ethics
- Social Justice and ethics
- Ethical Thoughts of Sung-Ming Period
- Theories of Citizenship Education
- Reading of the Classics in Ethics
- Applied Ethics
- Anthropology
- Studies on Education of Traditional Ethics in Korean
- Political Philosophy and ethics
- Philosophy and Ethics Education
- Studies in Moral Psychology
- Introduction to moral education
- Issues of Contemporary Ethics
- The present state and future of Moral subject education

Total Credits: 96

Liberal Arts Courses

- Writing (3)
- Logic (3)
- English for Global Communication2 (3)
- Career Plan and Self Understanding (2)

Total Credits: 11

Minor Courses

- Theory of Moral·Ethical Education (3)
- A Course on Logic and Essay Writing in Ethics Education (3)
- Democracy and Positive-sum Morals (3)
- Analysis of Curriculum and Textbook of Moral·Ethical Course (3)
- Western Ethics (3)
- Textual Studies in Korean Ethics (3)

Total Credits: 18

Pedagogy Courses

- Theory of Moral·Education (3)
- A Course on Logic and Essay Writing in Ethics Education (3)
- Research Methods and Techniques in Ethics Education (3)

Total Credits: 9

Korean Language Education

Contact Information
Phone: +82-62-530-2410
Fax: +82-62-530-2419
E-mail: koreaedu2410@daum.net
URL: http://koredu.jnu.ac.kr

What is Korean Language Education?

The Department of Korean Language Education was established in 1978. Since that time, students have accumulated their elite knowledge of Korean language and literature, polishing their teaching and leadership skills.

Along with undergraduate courses, there are graduate courses in the Graduate School of Education, as well as Ph.D. programs in Korean Language Education. These courses are organized to link the process of studies and to run concurrently.

Faculty members in the Department of Korean Language Education believe that Korean language and Korean culture represent the root of Korea as a nation, and strengthening the field of Korean education will enable the country to better participate in globalization.

To this end, the Department conducts various activities such as direct investigations, folk custom excursions, academic exhibitions, and literary investigations and seminars. These activities are meant to connect studies with practical experiences in the field.

Department of Korean Language Education

The goal of the Department of Korean Language Education is to cultivate teachers who understand and are able to teach the correct usage of the Korean language in secondary schools and in society at large. The Department accomplishes this by enabling its students to analyze linguistic phenomena and appreciate literary works. The whole range of Korean language and culture is covered in the academic curriculum.

Many types of courses are available in the Department to allow for the study of specific subjects within such majors as Korean Linguistics, Korean Language Education for International students, Korean Classical Literature Education and Korean Modern Literature Education, Korean Folklore and Culture Education, Korean Creative Writing Education, and Korean Listening, Speaking, Reading, and Writing Skills Education.

Educational Objectives

1) to offer students greater opportunities to acquire general knowledge in the area of Korean language and literature and enhance scholastic teaching ability in the educational field by practicing refined Korean language from a teacher's perspective;
2) to contribute to the scholarship and education of Korean language and culture for the purpose of meeting the challenges of globalization in the 21st century.

■ Professors

- Cheol Noh, Ph.D.
  [Professor, Modern Korean Poetry Education, nochul@jnu.ac.kr]
- Young-Hee Yang, Ph.D.
  [Professor, Middle Korean, Grammar Education, chamnamu@jnu.ac.kr]
- Keun-Ho Kim, Ph.D.
  [Professor, Modern Korean Novel Education, critik7@jnu.ac.kr]
- Jin-Su Jo, Ph.D.
  [associate Professor, Korean Modern Linguistics, Grammar Education, jojinsu1@jnu.ac.kr]
- Ji-Hyoung Cho, Ph.D.
  [Assistant Professor, Korean Classical Literature, kaisercho@jnu.ac.kr]
- Yun-Mi, Chae, Ph.D.
  [Assistant Professor, Korean Classical Novel, ymchae82@jnu.ac.kr]

■ Degree Requirements

- Credit transfer: 150
- Graduation Qualification

1. Pass final exams
2. Pass English for Global Communication
3. Exploration for Literature and Language studies(twice).

■ What Do You Study?

▮ Core Courses

Korean Teaching Material Research & Guidance
Introduction to Education
Educational Assessment
Educational Sociology
Educational Administration and Management
Philosophy and History of Education
Curriculum
Educational Psychology
Teaching Method and Technology
Practical Affairs for the Teaching Profession
Prevention and Countermeasures of School Violence
Student Teaching Internship
Education Volunteer Service
Teaching Children with Learning Disabilities
Theories of Teaching Korean Language
Educational Theory of Fiction
Theories in Teaching Korean Poetry
A Course on Korean Logic and Essay Writing
Korean Grammar
History Of Korean Language
Korean Literature History

▮ Electives

Education Of Literature
Educational Theory of Korean Essays
Educational Theory of Korean Classical Poetry Instruction
Reading Korean Modern Literary Works
Practice in Teaching Literature
Education of Korean Grammar
Educational Theory of Reading
Korean literary criticism and it's education
Practice of Creative Writing
Reading Korean Ancient Literary Works
Korean Language Norms Education
Education of Social Linguistics
Teaching Theory of Drama
Introduction to Korean Literature
Graphemics
Educational Studies in Hyang-Ga&Poetry in Koryo Dynasty
Modern literary education

Korean Semantics Education
Selected Readings on the Korean Linguistic History Materials
Theory of Korean Writers and Works and it's Education
Practice in Korean Grammar Education
Special Lecture of Modern Literary Education
Special Lecture of Korean Classical Literary Education
Educational Theory of speech
Educational theory of Writing
Media and Korean Language Education
Theories of Korean Language Education
Theories in Teaching Korean Classical Novel
Theories in Teaching Sino - Korean Literature
Introduction to Korean Linguistics
Korean Phonology
Practice in Teaching Literature

■ Careers

Graduates receive a secondary degree teaching certificate in Korean Language Education. Students have a broad range of career options, from education to journalism: secondary school teachers, journalists, administrators, public servants, research instructors, junior supervisors, academic professors, attorneys, and Korean language education specialists.

English Education

Contact Information
Phone: +82-62-530-2430
Fax: +82-62-530-2449
URL: http://engedu.jnu.ac.kr

What is English Education?

The Department of English Education strives to develop our students' language competences and teaching skills in keeping with the professional demands of this information-rich era of globalization. We develop our students' communication skills through English while fostering the critical perspective that is essential for a professional EFL teacher in the field of contemporary English Education.

The courses in the program are focused on the studies of English Language and Literature and English Education, which are diverged into three channels of introductory British and American literature courses, the basic theories of English language, and English education. The curriculum of the department is structured to enable students to acquire an in-depth theoretical foundation of knowledge, and to further understand how this knowledge becomes applied pedagogy through practical courses including English Teaching Methods, English Teaching Practice, EFL Teaching Materials Development, and English language evaluation. Language skills courses such as English Conversation, English Writing, and English Grammar are complemented by the broader perspective offered in courses focused on English Literature and Understanding wider English (Anglophonic) and British Culture.

Department of English Education

Since 1972, the Department of English Education has produced leaders and experts in the field of English education who play key roles in the future development of English education by equipping them with a profound knowledge in their field and fostering their capabilities to apply that acquired knowledge to the sites where they work. The students study the nature and structure of the English language while exploring a wide variety of English literary works, as well as achieving a comprehensive grounding in linguistics.

It also helps students to better understand the history of British and American literature. Additionally, it develops methods and methodology of teaching English in regard to curricula, teaching materials, and the theory of testing, among others.

As a result, students become more qualified with both commanding and capable teaching skills while also keeping pace with developments in information and globalization. These in-depth studies foster professional English teachers of secondary schools, as well as help graduate students study English philology, literature, and education.

■ Professors

- Byung Kyoo Ahn, Ph.D.
  [Professor, English Education, ahnbk@jnu.ac.kr]
- Chul Joo Uhm, Ph.D.
  [Professor, English Education, cjuhm@jnu.ac.kr]
- Hui Sok Yoo, Ph.D.
  [Professor, 19th Century American Novels, yoohuisok@yahoo.com]
- Jee Hyun Ma, Ph. D.
  [Professor, English Education, jeehyun@jnu.ac.kr]
- Mun-Hong Choe, Ph.D.
  [Professor, English Education, munhong@jnu.ac.kr]
- Seung-a Ji, Ph.D.
  [Associate Professor, English Drama, shange@jnu.ac.kr]
- Christopher Lashwood, M.A.
  [Invited Professor, Applied Linguistics(TESOL), chrislashwood@gmail.com]

■ Degree Requirements

Students are required to earn 150 credits, with 45 credits from core courses, 48 credits from electives, 30 credits from liberal arts courses, and 27 credits from general electives.

- Liberal Arts Credits: 30
- General Electives Credits: 27

■ What Do You Study?

▮ Core Courses

Introduction to Education (2)
Educational Assessment (2)
Educational Sociology (2)
Educational Administration and Management (2)
Philosophy and History of Education (2)
Curriculum (2)
Educational Psychology (2)
Teaching Method and Technology (2)
Practical Affairs for the Teaching Profession (2)
Student Teaching Internship (2)
Education Volunteer Service (2)
Teaching Children with Learning Disabilities (2)
School Violence Prevention and Understanding of Students (2)
Teaching Grammar in EFL (3)
Principles of English Language Teaching (3)
Teaching Critical Writing in English (2)
EFL Teaching Materials Development (3)
Intermediate English Writing (3)
English Phonetics & Phonology (3)
Survey on British Literary Works (3)
Survey on American Literature (3)

Total Credits: 49

▮ Electives

Teaching English Literature (3)
Visual Text and English Education (3)
Teaching British and American Culture (3)
Teaching English as a Foreign Language (3)
Multimedia for English Language Teaching (3)
English Speech (3)
Classroom English Practice (2)
English Teaching Practice (3)
English Education Curriculum Development (3)
Seminar in English Language Teaching (3)
English Evaluation (3)
Basic English Reading (3)
Beginning English Conversation (3)
Teaching Reading in EFL (3)

Teaching Writing in EFL (3)
Introduction to English Linguistics (3)
Educational Drama (3)
Intermediate English Conversation (3)
Media English Reading (3)
History of English Culture (3)
History of American Culture (3)
Understanding of English Novels (3)
Practical English Writing (3)
Understanding English Poetry (3)
Advanced English Reading (3)
English Language Acquisition (3)
History of English Language (3)
Modern English Grammar (3)
Understanding English Classics (3)
Advanced English Writing (3)
Seminar on English Literature (3)
Applied English Phonetics (3)
Understanding English Drama (3)
Teaching Speaking in EFL (3)
Reading English Prose (3)
Total Credits: 104

▮ Minor Required

Teaching Grammar in EFL (3)
Principles of English Language Teaching (3)
Teaching Critical Writing in English (2)
EFL Teaching Materials Development (3)
English Phonetics & Phonology (3)
Survey on British Literary Works (3)
Total Credits: 17

▮ Minor Electives

21 credits should be chosen.

■ Careers

A large number of graduates work at middle and high schools or English education-related institutes, government-sponsored organizations as teachers, consultants, professors, or administrators. Others become graduate students or go abroad to work or study.

We expect that the program will deepen the students' insights into not only their own experience but also the collective experience of the society to which they belong and thus help students find a way to further study in medical science, dentistry, psychology, business, or education as well as in English. The graduates of English Education department play a key role as teachers, leaders, educational administrators, consultants, journalists, professors, or public officers at middle and high schools or English-related institutes, as well as government-sponsored organizations who actively participate in the field of English education. Those who have enthusiasm for pursuing their intellectual goals as professionals can apply for graduate courses at home and abroad and further their academic career in the areas of English language, literature, and education as researchers in these fields.

Mathematics Education

Contact Information
Phone: +82-62-530-2470
Fax: +82-62-530-2479
E-mail : A0088@jnu.ac.kr
URL : http://mathedu.jnu.ac.kr

What is Mathematics Education?

Mathematics education is a field of study focusing on teaching and learning, curriculum, psychology, philosophy, technology, history, and gender issues based on mathematical content, coupled with general theories of education and mathematics education.

Department of Mathematics Education

The mission of the Department of Mathematics Education is to educate students as secondary school teachers so that they may someday take a central role as excellent instructors in mathematics. The curriculum for the Department of Mathematics Education consists of basic and intensive levels of modern mathematics, including various theories of mathematics education in order to prepare our students for this field. The Department of Mathematics Education provides a well-designed student teaching program for Chonnam National University, along with College of Education affiliated middle and high schools. This opportunity provides our students with first-hand experience, applying what they learn in their undergraduate program to real situations. Furthermore, the Department of Mathematics Education has exclusive use of computer laboratories, rooms with pertinent materials, and classrooms equipped with the latest modern technology. In addition, the Department holds a pivotal position in the field of mathematics education within the Gwangju and Chonnam regions. As part of its commitment to enhancing mathematics education, the department organizes the annual “Yongbong Mathematics Education Conference”.

The Department of Mathematics Education not only strives to nurture teachers who are indispensable in the field of education, but also makes constant efforts to contribute to the development of the field of mathematics education by suggesting the direction in which mathematics education should head.

Professors

- Bomi Shin, Ph.D.,
  [Professor, Mathematics Education, bomi0210@jnu.ac.kr]
- Chunyoung Oh, Ph.D.,
  [Professor, Mathematical Biology and Complex Analysis, cyoh@jnu.ac.kr]
- Sik Lee, Ph.D.,
  [Professor, Topology, slee@jnu.ac.kr]
- Sungmo Kang, Ph.D.,
  [Professor, Geometry and Topology, skang4450@jnu.ac.kr]
- Yeansu Kim, Ph.D.,
  [Associate Professor, Algebra and Number theory, ykim@jnu.ac.kr]

• Injo Hur, Ph.D.,
[Associate Professor, Analysis, injohur@jnu.ac.kr]
• Keunyoung Jeong, Ph.D.,
[Assistant Professor, Algebra and Number theory, keunyoung@jnu.ac.kr]

■ Degree Requirements

Mathematics education students are required to take 150 credit hours. In detail, 93 credits are within the major, 30 credits in liberal arts, and 27 credits in common electives.

■ What Do You Study?

▮ Core Courses

Curriculum (2)
Teaching Methods and Technology (2)
Educational Sociology (2)
Educational Psychology (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Introduction to Education (2)
Educational Administration and Management (2)
Advanced Calculus 1 & Practice (3)
Mathematical Statistics (3)
Teaching Children with Learning Disabilities (2)
Theory of Mathematical Education (3)
Complex Analysis 1 and Practice (3)
Teaching for Secondary School Mathematics (3)
A Course on Mathematics Logic and Essay Writing (2)
Topology 1 and Practice (3)
Abstract Algebra 1 and Practice (3)
Education Volunteer Service (2)
Practical Affairs for the Teaching Profession (2)
Student Teaching Internship (2)

▮ Electives

Set Theory and Laboratory (3)
Linear Algebra 1 and Laboratory (3)
Linear Algebra 2 (3)
Discrete Mathematics and Laboratory (3)
Introduction to Mathematics Education (3)
Differential Equations and Laboratory (3)
Theory of Numbers (3)
Introduction to Geometry (3)
Mathematics Education and coding (3)
Advanced Calculus 2 (3)
Mathematical modeling for teachers (3)
Artificial Intelligence and Mathematics Education (3)
Psychology of Mathematics Education (3)
Computer Based School Mathematics (3)
Abstract Algebra 2 (3)
Differential Geometry 1 (3)
Topology 2 (3)
Complex Variables 2 (3)
Assessment of Teaching & Learning in Mathematics (3)
Differential Geometry 2 (3)
History of Mathematics (3)
Real Analysis (3)
Topics in Abstract Algebra (3)
Geometry and School Mathematics (3)
Algebra and School Mathematics (3)
Analysis and School Mathematics (3)
Problem Solving Education Theory (3)
Topics in Analysis (3)

▮ Minor Courses

Advanced Calculus 1 & Practice (3)
Theory of Mathematical Education (3)
Teaching for Secondary School Mathematics (3)
A Course on Mathematics Logic and Essay Writing (2)
Topology 1 and Practice (3)
Abstract Algebra 1 and Practice (3)

Careers

The majority of our alumni are engaged in instructing mathematics within both public and private secondary educational institutions. A subset of graduates assume roles as accomplished administrators within their domain at the Office of Education, while others leverage their postgraduate qualifications to offer instruction in mathematics or mathematics education at the university level. Notably, within the Department of Mathematics Education, we take particular pride in boasting the highest national success rate in the annual administration of the National Teacher Employment Exam. A significant portion of those who achieve success in this endeavor presently hold positions as mathematics educators in Gwangju, Chonnam Province, and the Seoul-Gyeonggi metropolitan area.

Physics Education

Contact Information
Phone: +82-62-530-2480
Fax: +82-62-530-2489
URL: http://physicsedu.jnu.ac.kr

What is Physics Education?

The main themes of Physics Education are (1) to define the nature of physics and physics education based on philosophy, history, and psychology of physics and theory of education; (2) to identify and understand students' cognitive processes when they learn physics concepts, conduct scientific inquiry and solve physics problems; (3) to establish relationships between students' physics learning and their everyday life, interests and creative attitudes; (4) to develop and implement various effective teaching strategies using concept maps, epistemological V, demonstration, cognitive conflict, analogy, computers, discussion, and argumentation; and finally (5) to formulate the theory of physics learning, theory of physics curriculum development, and theory of assessment of physics learning.

Department of Physics Education

Physics is a pure science that studies the diverse phenomena of the natural world. Its foundational theories and experimental approaches provide a crucial foundation for other applied science fields. The importance of physics is increasingly being recognized, making the training of competent and passionate physics educators a vital task. In the Physics Education Department, continuous efforts are made to train secondary school teachers with the ability to effectively guide students.

To achieve this goal, the Physics Education Department offers comprehensive curricula that include both the fundamental subjects of physics (such as mechanics, electromagnetism, and quantum mechanics) and applied subjects (like electronic physics). These curricula also encompass courses on physics education theory, research on physics teaching materials, and teaching methods. Both theoretical and practical/experimental courses are included. Through this process, students are equipped with the practical qualities and research abilities needed as science and physics educators.

Upon graduation from the Physics Education Department, students receive a certification to teach physics and general science in secondary schools. Most of these graduates primarily become teachers in secondary schools, while some pursue advanced studies in graduate schools on physics or physics education. Based on their research experiences, some contribute to academia as professors, while others stand out as researchers or in various industries, demonstrating their expertise across different spheres of society.

■ Professors

- Jongwon Park, Ph.D.
  [Professor, Physics Education, jwpark24@jnu.ac.kr]
- Won-Young Hwang, Ph.D.
  [Professor, Quantum Optics, wyhwang@jnu.ac.kr]
- Jaehyeok Choi, Ph.D.
  [Professor, Physics Education, choi@jnu.ac.kr]
- Yung Ho Kahng, Ph.D.
  [Professor, Emerging Materials Devices, yhkahng@jnu.ac.kr]
- Jeongwoon Hwang, Ph.D.
  [Associate Professor, Condensed Matter theory, phyjhwang@jnu.ac.kr]

■ What Do You Study?

▮ Core Courses

Introduction to Education (2)
Philosophy and History of Education (2)
Educational Psychology and Counseling (2)
Educational Sociology and Lifelong Education (2)
Practical Affairs for the Teaching Profession (2)
Mechanics Education 1 (3)
Physics Education (3)
Electricity and Magnetism Education 1 (3)
Curriculum and Evaluation (2)
Educational Administration and Management (2)
Research of Physics Teaching Materials and Teaching Methods (3)
Thermal·Statistical Physics Education 1 (3)
Teaching Methods and Technology (2)
A Course on Physics Logic and Essay Writing (2)
Education Volunteer Service (2)
Quantum Physics Education 1 (3)
Wave and Optics Education (3)
Student Teaching Internship (2)
Teaching Children with Learning Disabilities (2)

Total Credits: 45

▮ Electives

General Biology Inquiry Laboratory 1 (1)
General Chemistry Inquiry Laboratory 1 (1)
Earth Science Inquiry Laboratory 1 (1)
General Physics Inquiry Laboratory 1 (1)
General Biology Inquiry Laboratory 2 (1)
General Chemistry Inquiry Laboratory 2 (1)
Earth Science Inquiry Laboratory 2 (1)
General Physics Inquiry Laboratory 2 (1)
Problem Solving for Physics 1 (2)
Problem Solving for Physics 2 (2)
Physics Education Exp. 1 (1)
Basic Electronic Circuit Lab. (2)
Philosophy of Science and Science Education (2)
Physics Curriculum and Teaching Practice (3)
Evaluation in Physics Learning (2)
Practice of Mechanics Education (2)
Practice of Mechanics Education 2 (2)
Mathematics for Physics 1 (3)
Practice of Mathematics for Physics (2)
Computers in Physics and Practice (3)
Modern Physics Education 1 (3)
Mechanics Education 2 (3)
Physics Education Exp. 2 (1)
Practice of Electricity and Magnetism Education (2)
Physics Educations and Multimedia (3)
Mathematics for Physics 2 (3)
Modern Physics Education 2 (3)
Electricity and Magnetism Education 2 (3)
Physics Education Exp. 3 (1)
Practice of Thermal and Statistical Physics Education (2)
Electronic Physics (3)
Physics Education Exp. 4 (1)
Thermal·Statistical Physics Education 2 (3)
Experiment Data Analysis (3)
Practice of Quantum Physics Education (2)

Practice of Wave and Optics Education (2)
Practice of Electricity and Magnetism Education 2 (2)
Practice of Electronic Physics (3)
Development Materials in Physics Learning (3)
Physics Education Exp. 5 (1)
Quantum Physics Education 2 (3)
Fluid Physics (3)
Condensed Matter Physics (3)
Theory of Teaching Physics Inquiry (3)
Seminar on Physics Education (3)
Physics Education Exp. 6 (1)
Topics in Condensed Matter Physic (3)
Nuclear and Particle Physics for Science Teachers (3)
Gifted Education in Physics 1 (2)
Gifted Education in Physics 2 (2)
Total Credits: 109

▮ Minor Courses

Mechanics Education 1 (3)
Physics Education (3)
Electricity and Magnetism Education 1 (3)
Research of Physics Teaching Materials and Teaching Method (3)
Quantum Physics Education 1 (3)
A Course on Physics Logic and Essay Writing (2)

Total Credits: 17

■ Careers

Graduates earn teaching certificates, qualifying them to become physics teachers in public schools. Other careers available to graduates include those in academia and research institutes. Some graduates opt to pursue graduate studies in Korea and abroad.

Chemistry Education

Contact Information
Phone: +82-62-530-2490
Fax: +82-62-530-2499
E-mail: A0166@jnu.ac.kr
URL: http://chemedu.jnu.ac.kr/

What is Chemistry Education?

The undergraduate program in Chemistry Education was established to meet the needs of creative secondary school teachers who have professional knowledge of chemistry, and teaching skills relating to educational processes in chemistry.

Professors

- Sang Kwon Lee, Ph.D.
  [Professor, Chemistry Education, lsk1213@jnu.ac.kr]
- Soon Hyung Kang, Ph.D.
  [Professor, Analytical Chemistry, skang@jnu.ac.kr]
- Si Kyung Yang, Ph.D.
  [Professor, Organic Chemistry, sky223@jnu.ac.kr]
- Kyoung Chul Ko, Ph.D.
  [Associate Professor, Physical Chemistry, kcko1982@jnu.ac.kr]
- Jonghoon Choi, Ph.D.
  [Assistant Professor, Inorganic Chemistry, jonghoon92@jnu.ac.kr]

Degree Requirements

Students are required to earn 150 credits (45 credits from core courses, 27 credits from electives, 32 credits from liberal arts courses, 21 credits from enhancement courses, and 25 credits from general electives).

What Do You Study?

Core Courses

Introduction to Education (2)
Educational Assessment (2)
Educational Sociology (2)
Educational Administration and Management (2)
Philosophy and History of Education (2)
Curriculum (2)
Educational Psychology (2)
Teaching Method and Technology (2)
Practical Affairs for the Teaching Profession (2)
Student Teaching Internship (2)
Education Volunteer Service (2)
Teaching Children with Learning Disabilities (2)
School Violence Prevention and Understanding of Students (2)
History of Chemistry and Chemistry Education (3)
A Course on Chemistry Logic and Essay writing (2)
A Chemistry Education (3)
Research of Chemical Teaching Materials and Teaching Methods (3)
Physical Chemistry Education 1 (3)
Analytical Chemistry Education 1 (3)

Organic Chemistry Education 1 (3)
Inorganic Chemistry Education 1 (3)

Total Credits: 49

▮ Electives

General Biology Inquiry Laboratory 1 (1)
General Chemistry Inquiry Laboratory 1 (1)
Earth Science Inquiry Laboratory 1 (1)
General Physics Inquiry Laboratory 1 (1)
General Biology Inquiry Laboratory 2 (1)
General Chemistry Inquiry Laboratory 2 (1)
Earth Science Inquiry Laboratory 2 (1)
General Physics Inquiry Laboratory 2 (1)
Philosophy of Science and Science Education (2)
Physical Chemistry Inquiry Laboratory 1 (2)
Physical Chemistry Education 2 (3)
Physical Chemistry Education Exercises 1 (1)
Physical Chemistry Inquiry Laboratory 2 (2)
Analytical Chemistry Education 2 (3)
Analytical Chemistry Inquiry Laboratory 1(2)
Analytical Chemistry Inquiry Laboratory 2 (2)
Theory of Teaching Chemistry Inquiry (3)
Physical Chemistry Education 3 (3)
Physical Chemistry Education Exercises 2 (1)
Organic Chemistry Education 2 (3)
Organic Chemistry Research Laboratory 1 (2)
Chemistry Curriculum and Evaluation (2)
Quantum Chemistry Education (3)
Organic Chemistry Education 3 (3)
Organic Chemistry Research Laboratory 2 (2)
Advanced Organic Chemistry Education (3)
Instrumental Analysis Education (3)
Inorganic Chemistry Education 2 (3)
Inorganic Chemistry Inquiry Laboratory (2)
Advanced Physical Chemistry Education (3)
Advanced Analytical Chemistry Education (3)
Coordination Chemistry Education (3)

Total Credits: 67

▮ Minor Courses

Physical Chemistry Education 1 (3)
Organic Chemistry Education 1 (3)
Chemistry Logic and Essay Writing (2)
Chemistry Education (3)
Inorganic Chemistry Education 1 (3)
Research of Chemical Teaching Materials and Teaching Methods (3)

Total Credits: 17

■ Careers

Most graduates are employed as teachers in secondary schools, professors, educational administrators, or researchers in the field of chemistry and education.

Biology Education

Contact Information
Phone: +82-62-530-2500
Fax: +82-62-530-2509
URL: http://bioedu.jnu.ac.kr

Major in Biology Education

The Department of Biology Education aims to educate students to become science and biology teachers at middle and high schools, and experts in biology or biology education. For this purpose, we strives to develop our students' understanding of life science and teaching skills in keeping with the professional demands of the knowledge based society of information.

The curriculum of the department is structured to enable students to acquire an in-depth theoretical foundation of life science, and to further understand how this knowledge becomes applied pedagogy through practical courses. The courses such as Genetics, Cytology, Taxonomy, Embryology, Physiology, and Biology Field Practice are to help students go get in-depth knowledge of life science. And the courses such as Biology Education and Research of Biology Teaching Materials & Teaching Method are offered to prepare students to become the competent secondary school biology teachers.

Professors

- Dong-Woog Choi, Ph.D.
  [Professor, Plant Molecular Genetics, dwchoi63@jnu.ac.kr]
- Eunyoung Jeong, Ph.D.
  [Professor, Biology Education, jey@jnu.ac.kr]
- Kyung-Bon Lee, Ph.D.
  [Professor, Developmental Biology, kblee@jnu.ac.kr]
- Jung-Hyun Lee, Ph.D.
  [Associate Professor, Plant Taxonomy/ Conservation Genetics, quercus@jnu.ac.kr]
- Su-Man Kim, Ph.D.
  [Assistant Professor, Immunology, kimsm3324@jnu.ac.kr]

Degree Requirements

Students are required to earn 150 credits, with 45 credits from core courses, 32 credits from liberal arts courses, 25 credits from general courses, 27 credits from electives, and 21 credits from enhancement courses.

Students are also required to pass a comprehensive exam and demonstrate proficiency with computers and in a foreign language.

What Do You Study?

Core Courses

Introduction to Pedagogy (2)
Educational Assessment (2)
Educational Sociology (2)

Educational Administration and Management (2)
Philosophy and History of Education (2)
Curriculum (2)
Educational Psychology (2)
Teaching Method and Technology (2)
Cytology (3)
Genetics (3)
Molecular Biology (3)
Animal Taxonomy (3)
Animal Physiology (3)
Introduction to Ecology (3)
Practical Affairs for the Teaching Profession (2)
Teaching Children with Learning Disabilities (2)
Theory and Practice of School Violence Prevention (2)
Education Volunteer Service (2)
Student Teaching Internship (2)
Biology Education (3)
Research of Biology Teaching Materials & Teaching Method (3)
A Course on Biology Logic and Essay Writing (2)

▮ Electives

General Biology Inquiry Lab 1 (1)
General Biology Inquiry Lab 2 (1)
General Physics Inquiry Lab 1 (1)
General Physics Inquiry Lab 2 (1)
General Chemistry Inquiry Lab 1 (1)
General Chemistry Inquiry Lab 2 (1)
Earth Science Inquiry Lab 1 (1)
Earth Science Inquiry Lab 2 (1)
Biology Field Practice (1)
Plant Morphology Lab (1)
Plant Taxonomy Lab (1)
Intertidal Zone Biota Inquiry (1)
Biological Chemistry (3)
Cytology Lab (1)
Animal Taxonomy (3)
Animal Taxonomy Lab (1)
Plant Morphology (3)
Plant Taxonomy (3)
Genetics Lab (1)
Plant Embryology (3)
Plant Embryology Lab (1)
Vertebrate Anatomy (3)
Biology Inquiry Practice (3)
Evaluation in Science Learning (3)
Genetic Engineering (3)
Microbiology (3)
Ecology Lab (1)
Microbial Physiology (3)
Diversity and Change of Life (3)
Molecular Biology (3)
Plant Physiology (3)
Philosophy of Science and Science Education (2)
Microbiology Lab (1)
Principles of Biology Inquiry (3)
Phycology (3)
Phycology Lab (1)
Biology in the Human Context (3)
Entomology (3)
Entomology Lab (1)
Animal Physiology Lab (1)
Immunology (3)
Historical Approach for Biology Learning (3)
Animal Embryology (3)
Animal Embryology Lab (1)
Biostatistics (3)
Environmental Biology (3)
Mycology (3)
Genomics (3)

▮ Minor Courses

Cytology (3)
Molecular Biology (3)
Animal Taxonomy (3)
Genetics (3)
Biology Education (3)
A Course on Biology Logic and Essay Writing (2)
Research of Biology Teaching Materials and Teaching Methods (3)
Total Credits: 17

■ Careers

The graduates of our department can get the certificate of secondary school science teacher. Most graduates work for secondary schools as science and biology teachers. Some of them keep researching in postgraduate programs and then become experts in biology or biology education.

Earth Science Education

Contact Information
Phone: +82-62-530-2510
Fax: +82-62-530-2519
URL: http://earthedu.jnu.ac.kr/

What is Earth Science Education?

The Department of Earth science education aims to train science and earth science teachers at middle and high schools. The goal is to train qualified earth science teachers with general understanding of earth science – geology, astronomy, atmospheric science, and oceanography – and the overall field of science, effective teaching methods, and morality to positively influence students.

Major in Earth Science Education

The Department of Earth Science Education is committed to training and developing exceptionally well informed, enthusiastic, dedicated and highly-skilled earth science educators and practitioners for middle and high schools, higher education, and research and development. All of our programs are devoted to fostering critical thinking and a spirit of innovation.

The educational program has many highly developed general and specialized courses, including geology, astronomy, atmospheric science, oceanography, and earth science education, as well as presenting an opportunity for hands-on experience through experiments in laboratory settings. In addition, we have recently been developing programs that address environmental problems and space science. Teaching certificates are awarded upon completion of terms and the required courses.

Professors

- Jong-Hee Kim, Ph.D.
  [Professor, Earth Science Education, earthedu@jnu.ac.kr]
- Suyeon Oh, Ph.D.
  [Professor, Astronomy, suyeonoh@jnu.ac.kr]
- Tae-Won Park, Ph.D.
  [Associate Professor, Atmospheric Science, park2760@jnu.ac.kr]
- Sungshil Kim, Ph.D.
  [Assistant Professor, Structural geology, neogeo94@jnu.ac.kr]
- Chang-Pyo Jun, Ph.D.
  [Assistant Professor, Paleontology, cpjun@jnu.ac.kr]

Degree Requirements

Students are required to earn 140 credits, with 45 credits from core courses, 27 credits from electives, 21 credits from other (enhancement) courses, 32 credits from liberal arts courses, and 15 credits from general electives.

What Do You Study?

Core Courses

Astronomy (3)
Atmospheric Science (3)
Introduction to Education (2)
Educational Assessment (2)
Educational Sociology (2)
Educational Administration and Management (2)
Philosophy and History of Education (2)
Curriculum (2)
Educational Psychology (2)
Teaching Method and Technology (2)
Practical affairs for the Teaching Profession (2)
Student Teaching Internship (2)
Education Volunteer Service (2)
Teaching Children with Learning Disabilities (2)
School Violence Prevention and Understanding of Student (2)
Paleontology and Stratigraphy (3)
Earth Science Education (3)
A Course on Earth Science Logic and Essay Writing (2)
Material Evaluation and Teaching Method in Earth Science (3)
Geology (3)
Oceanography (3)

Major Electives

Stellar Astronomy (3)
Basic Astronomy (3)
Astronomical Information and Data Analysis (3)
Position Astronomy (3)
Galaxy and Universe (3)
Astrophysics (3)
Meteorological Observation and Analysis (3)
Basic Atmospheric Science (3)
Dynamic Meteorology (3)
Synoptic Meteorology (3)
Atmospheric Physics (3)
General Biology Inquiry Laboratory 1 (1)
General Biology Inquiry Laboratory 2 (1)
General Chemistry Inquiry Laboratory 1 (1)
General Chemistry Inquiry Laboratory 2 (1)
Philosophy of Science and Science Education (2)
Evaluation in Earth Science Learning (2)
Education for Earth Science Gifted (2)
Guidance method of Earth Science (3)
Earth Science Inquiry Laboratory 1 (1)
Earth Science Inquiry Laboratory 2 (1)
Minerals and Optical mineralogy (3)
Earth Science Inquiry Instruction and Practice (3)
Education of Petrology and Practice (3)
Sedimentary Petrology (3)
History of the Earth and Korean Peninsula (3)
History of Earth Science and Earth Science Education (3)
Guidance of Earth Science History (3)
General Physics Inquiry Laboratory 1 (1)
General Physics Inquiry Laboratory 2 (1)
Climatology (3)
Inquiry of Microfossils (3)
Environmental Science of the Earth (3)
Geochemistry Education (3)
Field Geology and Practice (3)
Resources Geology (3)
Geophysics (3)
Inquiry of fuel Geology (3)
Natural Disasters and Energy Resources (3)
Inquiry of Physical Oceanography (3)

Minor Courses

Astronomy (3)
Atmospheric Science (3)
Geology (3)
Earth Science Education (3)
A Course on Earth Science Logic and Essay Writing (2)
Material Evaluation and Teaching Method in Earth Science (3)

Careers

The majority of our graduates go on to teach science in the national education system at middle or high schools and contribute greatly to educational development in real teaching contexts. A significant minority develop their careers in other areas such as research institutes, universities, government departments, and related companies.

Home Economics Education

Contact Information
Phone: +82-62-530-2520
Fax: +82-62-530-2529
URL: http://homeedu.jnu.ac.kr/

What is Home Economics Education?

The Department of Home Economics Education aims to train Home Economics teachers for employment at middle schools and high schools. The goal is to train qualified Home Economics teachers with a general understanding of a beneficial dietary life, clothing, housing, household management, and family life coupled with a home economics education philosophy, effective teaching methods, and morality to positively influence students.

Department of Home Economics Education

The Department of Home Economics Education aims to cultivate students' practical problem-solving abilities, life independence ability, and relationship-forming abilities related to family life issues and the surrounding environment. We help students recognize and address issues in family life, enabling them to create a healthy and happy family culture. Our curriculum is rooted in home economics, covering topics such as family life, consumer behavior, food and nutrition, apparel, housing, and family welfare. Courses include Family Education Theory, Home Education Curriculum Research and Instruction, and Family Education Seminars. Through theoretical and practical coursework, including lab experiments and field training, we graduate competent secondary school home economics teachers equipped with comprehensive expertise and personal qualities.

After graduation, students receive a level 2 home economics teaching certificate of secondary education, allowing them to pursue careers as secondary school teachers, scholars, vice-principals, and principals. Graduates also find opportunities in various educational, home economics-related businesses, government agencies, as well as advancing to graduate school for further studies, leading to careers in universities, research institutions, corporations, and community educational organizations.

Professors

- Lan-Hee Jung, Ph.D.
  [Professor, Food Science, lhjung@jnu.ac.kr]
- Eun-Hah Wee, Ph.D.
  [Professor, Apparel science, weh@jnu.ac.kr]
- Seo-Yeon Lee, Ph.D.
  [Assistant Professor, Family Relationships, sy0929@jnu.ac.kr]
- Seong-Youn Choi, Ph.D.
  [Assistant Professor, Home Economics Education, taeresa@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 150 credits, with 45 credits from core courses, 27 credits from electives, 21 credits from other (enhancement) courses, 30 credits from liberal arts courses, and 27 credits from general electives.

■ What Do You Study?

▮ Core Courses

Applied Food Science (3)
Apparel Design (3)
Philosophy and History of Education (2)
Educational Administration and Management (2)
Educational Sociology (2)
Child Development (3)
Teaching Method and Technology (2)
Home Management (3)
Educational Assessment (2)
Educational Psychology (2)
Introduction to Education (2)
Curriculum (2)
Practical Affairs for the Teaching Profession (2)
Student Teaching Internship (2)
Research & Teaching of Home Economical Materials (3)
Theory of Home Economics Education (3)
A Course on Home Economics Logic and Essay Writing
Education Volunteer Service (2)
Teaching Children with Learning Disabilities (2)
School Violence Prevention and Understanding of Students (2)
Housing (3)

▮ Electives

Colouring and Design (3)
Apparel Care and Experimental Lab. (3)
Apparel Materials and Experimental Lab. (3)
Fashion Coordination Guidance (3)
Fashion Education Media Production (3)
Fashion Style Drawing (3)
Textile Finishing and New Materials (3)
Culture of Costume (3)
Coaching in Handicrafts (3)
Psychology of Dress (3)
Current Issues in Home Economics Education (3)
Laboratory of Korean Cooking Education (3)
Education of Enabling and Empowering Families (3)
Theory & Practice in Apparel Making (3)
Laboratory of Foreign Cooking Education (3)
Theory & Practice in Traditional Costume (3)
Seminar of Home Economics Education (2)
Multimedia in Home Economics Education (2)
Family Life Education (3)
Meal Management Education (3)
Nutrition Teaching Education (3)
Introduction to Food Science (3)
Food Hygiene (3)
Nutrition (3)
Nutrition in Life Cycle (3)
Experiment of Food Nutrition (3)
Experiment of Dietary Life Education (3)
Experiment of Nutrition education (3)
Diet Therapy (3)
Meal Culture (3)
Food Preservation (3)
The Family (3)
Household Equipment & Lab (2)
Household Economics (3)
Parent Education (3)
Interior Design (3)
Adolescence Development (3)
Consumer Education (3)
Family Life and Welfare (3)
27 credits should be chosen.

▮ Minor Courses

Apparel Design (3)
Applied Food Science (3)
Theory of Home Economics Education (3)

Home Management (3)
Research and Teaching of Home Economical Materials (3)
Home Economics Logic and Essay Writing (2)

▮ Minor Courses

21 credits should be chosen.

■ Careers

Graduates may pursue careers as secondary school teachers. They may also work for research institutes and private companies.

Music Education

Contact Information
Tel: +82-62-530-2530
Fax: +82-62-530-2539
E-mail: klarminji@jnu.ac.kr
URL: http://musicedu.jnu.ac.kr/

What is Music Education?

Consider for a moment the power of music. Music is everywhere. To take it one step further, music is in the songs of birds, in the crashing of waves, and in the beating of the heart. Music is inescapable. Once we acknowledge this fact, we must learn to appreciate and understand the need for music.

Music strengthens the mind, stimulates brain cells, and encourages creative thoughts and imagination. The need for music education, then, is clear. Children who understand music do better in life.

Department of Music Education

The Department of Music Education is committed to training future teachers, who are also musicians, involved in both music and teaching at the highest professional level.

The objectives of the course series is to learn the role of music in their lives, to develop theories of musical learning development, and to practice methods and approaches for teaching music (Orff, Kodaly, Dalcroze).

Through a sequence of courses and pre-service teaching experiences, students who successfully complete the program fulfill the requirements for Certification in Secondary Music Education.

Students study various practical techniques of the major, including Solfege, Harmony, Counterpoint, History of Western Music, Orchestration, Chorus, Orchestra, Theory of Music Education, Teaching Material and Pedagogy of Music, Traditional Korean Music, Computer Music, Keyboard Harmony, and Techniques of Digital Piano, among others.

Professors

- Ji-Hyang Oh, Ed.D.
  [Professor, Music Education, ojh212@jnu.ac.kr]
- Mi-Kyung Lee, Ph.D.
  [Professor, Musicology, mklee3@jnu.ac.kr]
- Dae-Jin Bang, Diplom Superior
  [Associate Professor, Voice, bang.daejin@gmail.com]

Degree Requirements

Students are required to earn 150 credits, with 44 credits from core courses, 28 credits from electives, 30 credits from liberal arts courses, 27 credits from general courses.

Students minoring in Music Education are required to earn 38 credits, with 14 credits from minor courses, and 24 credits from minor courses.

- Liberal Arts Credits: 30
- General Electives Credits: 27

What Do You Study?

Core Courses

Instrument Major 2
Educational Psychology
Introduction to Education
Practice of Korean Tradition Instrumental Music 2
Practice of Korean Tradition Vocal Music 2
Composition & Theory of Korean Tradition Music 2
Voice Major 2
Composition Major 2
Piano Major 2
Instrument Major 3
Philosophy and History of Education
Practice of Korean Tradition Instrumental Music 3
Practice of Korean Tradition Vocal Music 3
Composition & Theory of Korean Tradition Music 3
Voice Major 3
Theory of Music Education
Composition Major 3
Piano Major 3
Instrument Major 4
Teaching Method and Technology
Educational Sociology
Practice of Korean Tradition Instrumental Music 4
Practice of Korean Tradition Vocal Music 4
Composition & Theory of Korean Tradition Music 4
Voice Major 4
Composition Major 4
Teaching children with Learning Disabilities
Piano Major 4
Education Volunteer Service
Instrument Major 5
Curriculum
Educational Administration and Management
Practice of Korean Tradition Instrumental Music 5
Practice of Korean Tradition Vocal Music 5
Composition & Theory of Korean Tradition Music 5
Voice Major 5
Composition Major 5
Piano Major 5
Instrument Major 6
Educational Assessment
Practical Affairs for the Teaching Profession
Practice of Korean Tradition Instrumental Music 6
Practice of Korean Tradition Vocal Music 6
Composition & Theory of Korean Tradition Music 6
Voice Major 6
Composition Major 6
Piano Major 6
Theory and Practice of School Violence Prevention
Instrument Major 7
Practice of Korean Tradition Instrumental Music 7
Practice of Korean Tradition Vocal Music 7
Composition & Theory of Korean Tradition Music 7
Voice Major 7
Teaching Material and Pedagogy of Music
Composition Major 7
Piano Major 7
Student Teaching Internship
Instrument Major 8
Practice of Korean Tradition Instrumental Music 8
Practice of Korean Tradition Vocal Music 8
Composition & Theory of Korean Tradition Music 8
Voice Major 8
Teaching Logic and Essay Writing in Music Education
Composition Major 8
Piano Major 8

Total Credits: 132

▮ Electives

Teaching Methods of Vocal Music 1
Instrument Major 1
Practice of Korean Tradition Instrumental Music 1
Practice of Korean Tradition Vocal Music 1
Composition & Theory of Korean Tradition Music 1
Popular Guitar
Wind Instrument Class Techniques
Band & Ensemble
Voice Major 1
Sight Singing & Ear Training 1
Music Theory
Composition Major 1
Piano Major 1
Chorus 1
Teaching Methods of Vocal Music 2
Teaching Methods of Music Appreciation
Music History 1
String Class Techniques
Sight Singing & Ear Training 2
Collaborative Piano 1
Chorus 2
Music History 2
Collaborative Piano 2
Chorus 3
Harmony 1
An Introduction to Korean Traditional Music 1
Music History 3
Music Pedagogy
Collaborative Piano 3
Piano Accompanying Techniques 4
Chorus 4
Harmony 2
An Introduction to Korean Traditional Music 2
Curriculum and Evaluation in Music Education
Teaching Methods of Choral and Conducting
Chorus 5
Korean Traditional Wind Instrument 1
History of Korean Music
Chorus 6
Korean Traditional Wind Instrument 2
Sight Singing & Ear Training 3
Music History 4
Sight Singing & Ear Training 4
Total Credits: 88

▮ Minor Courses

Instrument Major 2
Practice of Korean Tradition Instrumental Music 2
Practice of Korean Tradition Vocal Music 2
Composition & Theory of Korean Tradition Music 2
Voice Major 2
Composition Major 2
Piano Major 2
Instrument Major 3
Practice of Korean Tradition Instrumental Music 3
Practice of Korean Tradition Vocal Music 3
Composition & Theory of Korean Tradition Music 3
Voice Major 3
Theory of Music Education
Composition Major 3
Piano Major 3
Instrument Major 4
Practice of Korean Tradition Instrumental Music 4
Practice of Korean Tradition Vocal Music 4
Composition & Theory of Korean Tradition Music 4
Voice Major 4
Composition Major 4
Piano Major 4
Teaching Material and Pedagogy of Music
Teaching Logic and Essay Writing in Music Education

Total Credits: 50

▮ Minor Electives

24 credits should be chosen among Major Electives.

Careers

A large number of graduates work at middle and high schools. Others go on to graduate school to pursue more advanced careers.

Physical Education

Contact Information
Phone: +82-62-530-2550
Fax: +82-62-530-2569
URL: http://physicaledu.jnu.ac.kr

What is Physical Education?

The Department of Physical Education was established to develop physical education teachers in March 1973. In the years since that time, the department has produced over 1,000 physical education teachers. This department has seven faculty members in various branches of learning. Currently, there are 100 students enrolled in this department.

Department of Physical Education

Physical education is a subject in which students seek to improve quality of life, to develop physical strength, and promote health, steadiness of emotion, and socialization. The department seeks a successful development of physical education and sports culture at the same time.

Students of this department also participate in improving physical strength and motor skills, mastering knowledge about exercising and health, and learning desirable attitudes and socially valuable rules in various sports to accomplish this purpose.

The Department offers all students the curriculum to master knowledge about sports philosophy and history, sports psychology, exercise physiology, sports biomechanics, sports sociology, health and hygiene, and training courses to master ball sports, physical strength, gymnastics exercise, individual and collective exercises, dancing, and swimming.

This Department produces graduates who become teachers in middle and high schools, as coaches and instructors in elite sports and health centers, and as researchers in sports institutes.

Professors

- Jong-Soo Baek, Ph.D.
  [Professor, Sports Pedagogy,
  bjs0508@jnu.ac.kr]
- Young-Kwan Kim, Ph.D.
  [Professor, Motor Mechanics,
  ykkim01@jnu.ac.kr]
- Jun Kim, Ph.D.
  [Associate Professor, Sports Sociology,
  aquaspo@jnu.ac.kr]
- Dae-yeol Kim, Ph.D.
  [Associate Professor, Exercise Physiology,
  kimdaeyeol@jnu.ac.kr]
- Park Saengryeol, Ph.D.
  [Assistant Professor, Sports Psychology,
  elebpark@gmail.com]

■ Degree Requirements

Students are required to earn 150 credits, with 117 credits from core and related courses, and 33 credits from general courses. Students must also demonstrate proficiency with computers and in a foreign language.

■ What Do You Study?

▮ Core Courses

Curriculum (2)
Teaching Method and Technology (2)
Educational Sociology (2)
Educational Psychology (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Introduction to Education (2)
Educational Administration and Management (2)
Teaching children with Learning Disabilities (2)
Theory and Practice of School Violence Prevention (2)
Education Volunteer Service (2)
Practical Affairs for the Teaching Profession (2)
Student Teaching Internship (2)
Global Communication English (3)
Chinese Classic in Korean (3)
Physical Education Logic and Essay Writing (2)
Teaching Physical education (3)

▮ Electives

Rhythmic Aerobic 1 (2)
swim 1 (2)
Sport Socialogy (3)
Athletic 1 (2)
History of Physical Education (3)
Gymnastic 1 (2)
Table tennis 1 (2)
Teakwondo (2)
Winter sports 1 (2)
Rhythmic Aerobic 2 (2)
Swim 2 (2)
Sport philosophy and ethics (3)
Athletic 2 (2)
Human Anatomy and Computer Practice (3)
Gymnastic 2 (2)
Table tennis 2 (2)
Educational dance 1 (2)
basketball 1 (2)
New sports 1 (2)
Vollyball 1 (2)
Psychology of Sports and Motor Learning (3)
nutrition Science Of sports (3)
The Curriculum of Physical Education (3)
Soccer 1 (2)
Tennis 1 (2)
Health Education (3)
Education Dance 2 (2)
Basketball 2 (2)
New sports 2 (2)
Winter Sports 2 (2)
Vollyball 2 (2)
The Seashore Training (2)
Test And Measyrement In Physical Education (3)
Soccer 2 (2)
Tennis 2 (2)
Basketball 3 (2)
Dance Sports 1 (2)
Vollyball 3 (2)
Badminton 1 (2)
Sports Medical and Treatment of Injury (3)
Korea Dance (2)
Physiology Of Exercise (3)
Biomechanics of Sports sport (3)
Soccer 3 (2)
Golf 2 (2)
Dance sports 2 (2)

Badminton 2 (2)
Experimental Approach of Sport Sciences (2)
Baseball (2)
Camping 1 (2)
Motor control (3)
Golf 1 (2)
Introduction to Sports for All (3)
Swim 3 (2)
Sports Technology and Biomechnics (3)
Camping 2 (2)
Motor Development (3)
Athletic 3 (2)
Gymnastic 3 (2)
Recreation (2)
Sports Training and Exercise Prescription (3)
Administration of Physical Education (3)

■ Careers

A large number of graduates work at middle and high schools. Others go on to graduate schools to pursue more advanced careers.

Division of Special Education

Contact Information
Phone: +82-62-530-5400, 5410
Fax: +82-62-530-5409
URL: http://spededu.jnu.ac.kr/

What is Special Education?

Special education refers to a range of services that can be provided in different ways and in different settings. There's no 'one size fits all' approach to special education. It's tailored to meet the needs of students with disabilities. Special education focuses on helping students with disabilities learn.

The Division of Special Education

The division of special education offers undergraduate and graduate programs in special education. We have produced professionals in special education including outstanding teachers, superintendents, school administrators, consultants, and researchers. Our program is designed to prepare prospective educators to teach students with mild to moderate disabilities, as well as those with severe and multiple disabilities in a variety of educational settings. We also focus on transition and post-school employment for persons with disabilities. In addition, we provide research opportunities related to students with disabilities.

The division of special education consists of three departments: Early childhood special education, elementary special education, and secondary special education.

Early Childhood Special Education

The department of early childhood special education trains prospective educators to acquire professional knowledge and skills to teach kindergarteners with disabilities. The program focuses on practical experiences working with young children with special needs and families in the field.

Elementary Special Education

The department of elementary special education trains prospective educators to acquire professional knowledge and skills to teach elementary school students with disabilities. The program focuses on practical experiences working with children (Grades 1-6) with special needs, school-related professionals, and families in the field.

Secondary Special Education

The department of secondary special education trains prospective educators in the professional knowledge and skills needed to teach secondary school students with disabilities. The program focuses on practical experiences working with middle and high school students with special needs, their families, and professionals in a special education area.

■ Professors

- Hyun-Jong Song, Ph.D.
  [Educational Psychology and Counseling Psychology,
  hjsong@jnu.ac.kr]
- Doohyoo Lee, Ph.D.
  [Educational Policy,
  doohlee@jnu.ac.kr]
- Hongjoong Cho, Ph.D.
  [Education of Children with Physical Disabilities,
  chohj@jnu.ac.kr]
- Soon-Ja Lee, Ph.D.
  [Methodology of Early Childhood Education,
  jelmana@jnu.ac.kr]
- Eun Ko, Ph.D.
  [Education of Language Auditory Children with Language and Auditory Impairments,
  eunko@jnu.ac.kr]
- Hyeseung Choi, Ph.D.
  [Autism Spectrum Disorder, Emotional and Behavioral Disorders,
  hchoi2004@jnu.ac.kr]
- Sook-Hyun Oh, Ph.D.
  [Curriculum for Early Childhood Education,
  shoh04@jnu.ac.kr]
- Tae-Su Lee, Ph.D.
  [Learning Disabilities, Subject Education,
  taesu811@jnu.ac.kr]
- Woori Kim, Ph.D.
  [Mild Disabilities, Teaching and Learning Methods in Special Education,
  rnell777@jnu.ac.kr]
- Chung-Eun Lee, ph D.
  [Education of Children with intellectual disability, Family support,
  celee@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 150 credits to graduate.

Core Courses

▮ General Studies

English for Global Communication 2 (3)
Chinese Classic in Korean (3)
Career Plan and Self Understanding (2)
Childhood Development and Education (3)
Teaching children with Learning Disabilities (2)
Educational Psychology (2)
Theoretical Foundations of Special Education (3)

▮ Early Childhood Special Education

Educational Sociology (2)
Introduction to Early Childhood Education (3)
Curriculum in early childhood education (3)
Social Studies in Early Childhood Special Education (3)
Assenssment and Evaluation of Early Childhood with Specail Needs (3)
Education for Early Childhood with intellectual disability (3)
Curriculum (2)
Subject Education to Early Childhood Special Education (3)
Language Education for Children with Disabilities (3)
Inclusion for Young Children with Disabilities and Individualized Family Support (3)
Education for Early Childhood with Emotional and Behavioral Disorders (3)
Education for Early Childhood with Multiple and Physical Disabilities (3)
Curriculum in School for the Handicapped (3)
Education for Early Childhood with Visual Impairment (3)
Early Childhood Special Education Profession (3)
Early Childhood Special Education Law and Policy (3)
Art Education for Young Children with Disabilities (3)

Behavior Modification for Young Children with Disabilities (3)
Education for Early Childhood with Hearing Impairments (3)
Education for Young Children with Learning Disabilities (3)
Material Analysis and Teaching Techniques for Early Childhood Special Education (3)
Administration and Management in Early Childhood SpecialEducation Centers (3)
Education for Early Children with Communication Disorders (3)
Education for children with autism spectrum disorder (3)
Natural Sciences Education for the Early Childhood with Special Needs (3)
Parents Education for Young Children with Disabilities (3)
Arithmetic Education for the Early Childhood with Special Needs (3)
Teaching Method and Technology (2)
Education Volunteer Service (2)
A Course on Logic and Essay writing (2)
Technology of Early Childhood Special Education (3)
Music in Special Early Childhood Education (3)
Theory and Practice of School Violence Prevention (2)
Student Teaching Internship (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Educational Administration and Management (2)
Practical Affairs for the Teaching Profession (2)
Health and Safety Education for Children with Disabilities (3)
Play Development and Movement Intervention for Early Childhood with Special Needs (3)

▮ Elementary Special Education

Educational Sociology (2)
Education for Student with intellectual disability (3)
Education for Student with Hearing Impairments (3)
Natural Sciences Education for the Handicapped (3)
Art Education for the Handicapped (3)
Integrated Subject of Elementary school (3)
Clinical Assessment and Evaluation for the Handicapped (3)
Curriculum (2)
Education for Student with Emotional and Behavioral Disorders (3)
Education of the Multiple and Physical Disabilities (3)
Language Education for the Handicapped (3)
Music Education for the Handicapped (3)
Theory of Mainstreaming for the Handicapped (3)
Curriculum in School for the Handicapped (3)
Education for Student with Visual Impairment (3)
Social Sciences Education for the Handicapped (3)
Practical Arts Education for the Handicapped (3)
Curriculum in Elementary School (3)
Education for Student with Learning Disabilities (3)
Law & Policy in Special Education (3)
Behavior Modification (3)
Education for Student with Communication Disorders (3)
Material Analysis and Teaching Techniques for Special Education (3)
Arithmetic Education for the Handicapped (3)
Physical Education for the Handicapped (3)
Management of Classroom for the Handicapped (3)
Education for the Handicapped's Parent (3)
Counseling for Exceptional Children (3)
Teaching Method and Technology (2)
Education Volunteer Service (2)
Theory of Transitional Education for the Handicapped (3)
A Course on Logic and Essay writing (2)
English Education in Elementary Special Education (3)
Theory and Practice of School Violence Prevention (2)
Student Teaching Internship (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Educational Administration and Management (2)
Practical Affairs for the Teaching Profession (2)
Special Subject Education (3)
Professionals in Special Education (3)
Technology of Special Education (3)

▮ Secondary Special Education

Educational Sociology (2)
Education for Student with intellectual disability (3)

Education for Student with Hearing Impairments (3)
Law & Policy in Special Education (3)
Clinical Assessment and Evaluation for the Handicapped (3)
Curriculum (2)
Education for Student with Emotional and Behavioral Disorders (3)
Education of the Multiple and Physical Disabilities (3)
Career and Vocational Education for the Handicapped (3)
Mathematics Education for the disabled (3)
Curriculum in School for the Handicapped (3)
Education for Student with Visual Impairment (3)
Education for Student with Learning Disabilities (3)
Theory of Mainstreaming for the Handicapped (3)
Behavior Modification (3)
Education for Student with Communication Disorders (3)
Material Analysis and Teaching Techniques for Special Education (3)
Korean Language Education for Secondary School Students with Disabilities (3)
Management of Classroom for the Handicapped (3)
Counseling for Exceptional Children (3)
Teaching Method and Technology (2)
Education Volunteer Service (2)
Special Subject Education (3)
A Course on Logic and Essay writing (2)
Technology of Specail Education (3)
Theory and Practice of School Violence Prevention (2)
Student Teaching Internship (2)
Philosophy and History of Education (2)
Educational Assessment (2)
Educational Administration and Management (2)
Practical Affairs for the Teaching Profession (2)

■ Careers

Students who graduate in this program will receive the special education teacher certification. The graduates work as special education teachers in schools or in disability rehabilitation centers; or alternatively as consultants, researchers in academic institutions, and as professors.

College of Social Sciences

Contact Information
Phone: +82-62-530-2604~8
Fax: +82-62-530-2619
URL: http://socsci.jnu.ac.kr

Departments

- Department of Political Science and International Relations
- Department of Sociology
- Department of Psychology
- Department of Library and Information Science
- Department of Communication
- Department of Geography
- Department of Cultural Anthropology and Archaeology
- Department of Public Administration

Research Institutes

- Center for Democracy & Community
- Press and Public Relations Research Institute
- Geographic Information Science Research Institute
- Research Institute to Knowledge Resources
- Public Administration Research Institute
- Multi-cultural Society Center
- The Social Sciences Research Institute

Political Science and International Relations

Contact Information
Phone: +82-62-530-2620
Fax: +82-62-530-2639
E-mail: 5302620@naver.com
URL: http://politics.jnu.ac.kr

What is Political and International Relations?

Political Science is a discipline that aims to find the best way to improve political systems in which human beings can manage their lives with happiness and freedom. In this sense, political science is a systematically and theoretically academic major.

School of Political and International Relations

The Department of Political Science teaches theories and practices on domestic politics and international relations in general. The Department focuses on educating students who will actively work in various fields in the near future.

The Department aims at educating professionals in real politics as well as academic researchers on politics. To this end, the Department encourages students to learn research methodology and theories to understand political phenomena scientifically. To accomplish these purposes, both critical examination of existing theories and introduction to new theories are emphasized. The Department offers various undergraduate courses, of which the curriculum is divided into four general areas: Political Thoughts, Comparative Politics, International Relations, and Korean Politics.

Professors

- Yong Cheol Kim, Ph.D. [Professor, Comparative Politics and Korean Politics, kimyc@chonnam.ac.kr]
- Kyung-Taek Oh, Ph.D. [Professor, International Politics, ktoh@chonnam.ac.kr]
- Euikyung Park, Ph.D. [Professor, Gender Politics and Political Thoughts, pek2000@chonnam.ac.kr]
- Jung-Kwan Cho, Ph.D. [Professor, Korean Politics, hr23@hanmail.net]
- Jae-Kwan Kim, Ph.D. [Professor, Chinese Politics, jkkim543@chonnam.ac.kr]
- Jae-Gi Kim, Ph.D. [Professor, Diaspora Politics, jgkimm@hanmail.net]
- Eunjung Choi, Ph.D. [Professor, Comparative Politics, ejchoi76@jnu.ac.kr]
- Youngmi Choi, Ph.D. [Associate Professor, International Political Economy,ymchoi@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits and demonstrate proficiency in foreign language.

■ What Do You Study?

A History of Ancient & Medieval Political Thought (3)
A History of Modern Political Thoughts (3)
American Politics (3)
Chinese Foreign Policy (3)
Chinese Politics (3)
Comparative Politics (3)
Congressional Politics (3)
Contemporary Political Thought (3)
Diaspora and Politics of Integration (3)
Elections and Parties (3)
Foreign Policy (3)
Global Politics of the Environment (3)
History of International Relations (3)
International Area Disputes (3)
International Organizations and Non-Governmental Organizations (3)
International Political Economy (3)
International Relations (3)
Internet and Political Process (3)
Korea in International Politics (3)
Korean Politics (3)
Labor Politics (3)
Latin American Political Economy (3)
Law and Politics (3)
Media and Politics (3)
Overseas Korean Networks (3)
Political Behavior (3)
Political Economy in East Asia (3)
Political Leadership (3)
Politics of North Korea (3)
Relations of South-North Korea (3)
Research Methods in Political Science (3)
Russian Politics (3)
Special Topics in Area Studies (3)
United States Foreign Policy (3)
Urban and Local Politics (3)
Women and Politics (3)

▮ Minor Courses

39 credits should be chosen

▮ Teaching Profession Courses

Educational Theories of Social Studies (3)
Research of Educational logic and Teaching Discussion of Social Studies (2)
Research of Educational Text and Teaching Method of Social Studies (3)

■ Careers

Graduates of the Department take a variety of career paths. Among them are government positions, politics-related fields, law, education, and private business sector positions as well.

Public Administration

Contact Information
Phone: +82-62-530-2250
Fax: +82-62-530-2259
E-mail: jeonism50@gmail.com
URL: http://jnupa.jnu.ac.kr

What is Public Administration?

Today, the world has been confronted by the age of globalization. The importance of localized information has increased. In light of these trends, the Department of Public Administration concentrates its efforts on educating future administrative professionals with comprehensive problem-solving capabilities and task performance abilities through theoretical and practical studies on administrative phenomena. The efforts would equip them with various knowledge and skills, including those in planning, policy making, research analysis, organization management, and office management necessary for administrating governments and solving social problems.

Additionally, many graduates work in government agencies after passing various kinds of civil service examinations. Furthermore, graduates with a comprehensive problem-solving capacity have broader opportunities to make advances as they are undertaking central roles as competent managers in their fields.

Professors

- Yung-Chul Lee, Ph.D.
  [Professor, Administration Organization, yunglee@chonnam.ac.kr]
- Sung-Wook Choi, Ph.D.
  [Professor, Administration Organization culture, csw4pa@chonnam.ac.kr]
- Choong-Geun Song, Ph.D.
  [Professor, Public Policy analysis, solip@chonnam.ac.kr]
- Hou-Gyun Kim, Ph.D.
  [Professor, Public Administration Organization Theory, khg1427@chonnam.ac.kr]
- Joon-Kyo Seo, Ph.D.
  [Professor, Urban Policy, seo66386@chonnam.ac.kr]
- Mi-Seung Shim, Ph.D.
  [Professor, Welfare Administration, msshim@chonnam.ac.kr]
- Jung-Ah Bae, Ph.D.
  [Associate Professor, Financial Administration, jb07e@jun.ac.kr]
- Geun-Pil Ryu, Ph.D.
  [Associate Professor, Public Personnel Administration, gpryu@jnu.ac.kr]
- Dae-Wook Kim, Ph.D.
  [Assistant Professor, Local Administration, kdw@jnu.ac.kr]
- Sun Jung Oh, Ph.D.
  [Assistant Professor, Policy Sciences, sunjungoh@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, with 39 from Department courses.

■ What Do You Study

Community & Social Welfare
Readings in Public Administration
Administrative Organization
Macroeconomic Theory
Microeconomic Theory
Public Personnel Administration
Information communication Technology and public administration
Local Autonomy
Community Welfare and Practice
Administrative Management
Social Research Method in Public Administration
Crisis Management
Financial Administration
Local Administration
Quantitative Analysis of Public Affairs
Public Conflict Management
Global times and public administration
Urban Administration
Study of Leadership
Public Policy Analysis Evaluation
Local Public Finance
General Theory of Administrative Law
Public Economics
Social Welfare Administration
Regional Socioeconomic Development
Administration of Korean Government
Detailed Theory of Administrative Law
Public Choice
Public Enterprises
Comparative Public Administration
Government Organization and Civil Society
Special Issue of Public Administration
Public Bureaucracy
Digital Age and Government Innovation
Social Welfare Policy
Government Regulation
Policy Science Seminar
Philosophy of Public Administration
Environmental Administration

■ Careers

There are many career paths for graduates from the Department of Public Administration, such as becoming administrative bureaucrats. Graduates are also able to land positions in state-owned enterprises or public corporations. Furthermore, graduates can pave the way in private businesses, especially in the financial industry, such as with banks and security corporations.

Meanwhile, there are MPA and Ph.D. courses for students to pursue. Accordingly, the Department has a large number of graduate students enrolled, many of whom have continued their studies at many prominent international universities, becoming academic experts.

Sociology

Contact Information
Phone: +82-62-530-2640
Fax: +82-62-530-2649
E-mail: sociolog@jnu.ac.kr
URL: http://sociology.jnu.ac.kr

What is Sociology?

Sociology involves the study of the relationship between humans and lifestyles of human being and society. In other words, sociologists study the structual changes of human society as a conglomerate of people who interact with each other.

Department of Sociology

Sociology is divided into several fields as contemporary society changes rapidly. The Department of Sociology plays an important role in nurturing experts in the field.

Professors

- Soo-Jong Yoon, Ph.D.
  [Professor, Organization, Rural Sociology, sjyoon@jnu.ac.kr]
- Jun-Woo Kim, Ph.D.
  [Professor, Urban Sociology, Social Statistics, junewoo@jnu.ac.kr]
- Jung-Gie Choi, Ph.D.
  [Professor, Deviance and Social Control, jgchoi@jnu.ac.kr]
- Julia Jiwon Shin, Ph.D.
  [Professor, Industrial Sociology, juliashin@jnu.ac.kr]
- Jin-Yeon Kang, Ph.D.
  [Assosciate Professor, Historical Sociology, Sociological Theory, jinyeon@jnu.ac.kr]
- Su-Nam Jung, Ph.D.
  [Assistant Professor, Emotional Sociology, sunam2013@jnu.ac.kr]
- Myeong-Soo Kim, Ph.D.
  [Assistant Professor, Social Statistics, Socil Change, kimmyeongsoo@jnu.ac.kr]

Degree Requirements

Students are required to earn 27 credits from electives and 36 credits from minor courses.

What Do You Study?

Comparative Sociology
Contemporary Society and Culture
Contemporary Society and Human Rights
Contemporary Sociological Theories
Deviance and Social Control
Economic Sociology
Educational Theories of Social Studies
Environmental Sociology
Family and Sexuality
History of Social Thought
History of Sociology
Industrial Sociology

Introduction to Sociology
Medical Sociology
Methodology of Social Sciences
Methods in Social Research
Political Sociology
Reading of Sociological Writings
Religion and Society
Research of Educational Text and Teaching Method of Social Studies
Rural Sociology
Seminar in Social Research
Sexuality and Society
Social Change
Social History of Korea
Social Movements
Social Organization Theory
Social Problems
Social Psychology
Social Statistics 1
Social Statistics 2
Social Stratification
Sociology of Art
Sociology of Leisure
Sociology of Literature
Special Lecture on Sociology
Studies on the Asian Society
Urban Sociology
Visual Sociology
Writing

■ Careers

Graduates are able to obtain teaching certification and acquire positions as social research analysts.

Psychology

Contact Information
Phone: +82-62-530-2650
Fax: +82-62-530-2659
URL: http://psyche.jnu.ac.kr

What is Psychology?

Psychology is the modern science of the mind. Psychologists pursue scientific understanding of how the mind and behavior work. Students are encouraged to develop critical views and learning competencies in order to build their knowledge base of psychology and reach their academic goals.

Department of Psychology

The Department of Psychology was founded in 1978, and began to offer a master's degree program in 1984 and Ph.D. program in 1996. In 2013, there are 9 full-time faculty members and 9 part-time instructors, and over 70 graduate and 130 undergraduate students in the Psychology Department. As the only department that offers extensive psychology courses in the region of Gwangju and Jeonnam province, excellent education and research programs are offered in various areas of psychology including cognitive, developmental, biological/learning, social, clinical, counseling/personality, health, and industrial/organizational psychology. The Department provides one of the best research facilities among all the social and humanities departments at CNU.

The department has several labs for psychological testing, cognitive, and clinical neuropsychology experiments (including EEG, EMG, SCR, and HR acquisition systems), behavioral observation and monitoring, and other various kinds of psychological experiments. The students and the faculty members in the Department have been working closely together to build a healthy research environment and to provide community services needed in the Gwangju and Jeonnam region.

Professors

- Munsoo Kim, Ph.D.
  [Professor, Physiological Psychology, mkim@jnu.ac.kr]
- Hyun Kyun Shin, Ph.D.
  [Professor, Clinical Psychology, shk2004@jnu.ac.kr]
- Young-Shin Kang, Ph.D.
  [Professor, Counseling Psychology, lavieenrose@jnu.ac.kr]
- Hye jeen Lee, Ph.D.
  [Professor, Clinical Psychology, hjl2013@jnu.ac.kr]
- Samuel Suk-hyun Hwang, Ph.D.
  [Associate Professor, Neuro Psychology, hwansana@jnu.ac.kr]
- Jieun Shin, Ph.D.
  [Associate Professor, Social Psychology, jieunshin@jnu.ac.kr]
- Soyoung Kim, Ph.D.
  [Assistant Professor, Psychometrics, soyoungkim@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 8 semesters. Students must also demonstrate proficiency with computers and in a foreign language.

■ What Do You Study?

▮ Core Courses

General Psychology (3)
Methodology of Psychological Research (3)
Psychological Statistics (3)

▮ Electives

Psychology of Rehabilitation (3)
Psychology in English (3)
Industrial Psychology (3)
Counseling Psychology (3)
Psychological Test & Practicum (3)
Seminal in Psychology (3)
Cognitive Psychology (3)
Clinical Psychology (3)
Group Counseling (3)
Psychological Statistics (3)
Physiological Psychology (3)
Development Psychology (3)
Psychological Measurement & Practicum (3)
Abnormal Psychology (3)
Psychology of Personality (3)
Sensation & Perception (3)
Social Psychology (3)
Evolutionary Psychology (3)
Psychology of Language & Thought (3)
Positive Psychology (3)
Cognitive Process & Practicum (3)

▮ Teaching Profession Courses

Theory of Counseling Education (3)
Counseling Teaching Material Study and Instructional Methods (3)
Career Counseling (3)
Criminal Psychology & Practicum (3)
Research Methodology in Psychology (3)
Psychology of Aging (3)
Psychology of Emotion (3)
History of Psychology (3)
Cultural Psychology (3)
Brain & Cognition with Practicum (3)
Counseling for Exceptional Children (3)
Psychology of Advertising (3)
Psychology of Learning (3)

▮ Electives

21 credits should be chosen

■ Careers

Every semester faculty members and students meet for career guidance and counseling. Students are encouraged to pursue professional certificates in psychology. Special lectures and colloquia are offered to aid career goals. Major field settings for professional careers include counseling centers in the community, mental hospitals, social welfare institutions, schools, social survey and research sectors, corporations for human resource development/management and organizational development, and the public sector.(courts, police stations, rehabilitation centers, armies, etc.)

Library and Information Science

Contact Information
Phone: +82-62-530-2660
Fax: +82-62-530-2669
URL: http://list.jnu.ac.kr/

What is Library and Information Science?

Library and information science is the study of issues related to libraries and the information fields. This study includes academic subjects concerning how library and information resources are used and how people interact with library and information systems. It also deals with ideas and methodologies about the relations and management of knowledge, information, and library issues.

Library and information science mostly consists of spreading knowledge for the efficient retrieval of relevant information. Basic topics include the acquisition, cataloging, classification, and the preservation of library and information materials. A contemporary branch of the discipline is information architecture.

Department of Library and Information Science

The Department of Library and Information Science intends to educate students through full coursework that includes basic and upper training issues related to libraries and the information fields. The guidelines of the Department include educational purposes that are academic and practical subjects in information service and information utility. After graduating, most of students begin their graduate studies or join public libraries or academic libraries, national or local archives, or school libraries among other career choices. Graduates deal with ideas and methods about the relations and management of knowledge, information, and library issues that are studied from the Department of Library and Information Science.

The Department consists of several branch areas, but the most important goal of the department is to get the knowledge of efficient retrieval of relevant information. Basic topics include the acquisition, cataloging, classification, and preservation of library and information materials. In a more present-day view, a fervent outgrowth of LIS is information architecture.

Professors

- Hyun-Jin Hong, Ph.D.
  [Professor, Bibliometrics, hjhong@jnu.ac.kr]
- Jeong-Hyun Kim, Ph.D.
  [Professor, Knowledge Organization, jhgim@jnu.ac.kr]
- Myoung-Gyu Lee, Ph.D.
  [Professor, Information Material Organization, gyulee@jnu.ac.kr]
- Woo-Kwon Chang, Ph.D.
  [Professor, Knowledge Management, wk1961@jnu.ac.kr]
- Ji-Hyeon Kim, Ph.D.
  [Associate Professor, Information Science, jihkim@jnu.ac.kr
- Ji-sue Lee, Ph.D.
  [Assistant Professor, Information Science,

jislee@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits and demonstrate proficiency of foreign languages and computer skills.

■ What Do You Study?

Internship
Introduction to Library and Information Science
Information and Society
Cultural Review of Information
Classification
Information Management
Reading Guidance
Information Center Management
Cataloging
Understanding Information Science
Studies in Publication and Media
Introduction to Old Books in Korea
Information Service
Introduction to Bibliography
Introduction to Archive Management
Collection Development
Reading Guidance Practice
Web Publishing
Special Media
Information Retrieval
Information Resources
Materials and Methods of LIS
Education of Library and Information Science
Studies in Archives and Manuscripts
Content Development
Introduction to Database Management
Advances in Knowledge Organization
Cataloging of Far Eastern Books
Information Policies
Public Libraries
Information Resources of Natural Sciences and Technology
Indexing and Abstracting
School Libraries
Information System Analysis and Design
Administration of College and University Library
Information Resources of Humanities and Social Science
User Studies
Studies in Local Information
Research Methods in Library and Information Science
Archival Practice
Theory of Information Criticism
Studies in Local Information
Web Publishing Practice

■ Careers

Recently, certain areas of interest in Library and Information Science have extended into computer-based cataloging. Thus, the need for graduates in Library and Information Science is increasing.

Graduates can find careers in database cataloging or specialize in archive retrieval. Students also have the option to enter graduate school to further their studies and marketability.

Communication

Contact Information
Phone: +82-62-530-2670
Fax: +82-62-530-2679
E-mail: 5302670@naver.com
URL: http://comm.jnu.ac.kr

What is communication?

The discipline of communication focuses on how people use messages to generate meanings within and across various contexts, cultures, channels, and media. The discipline promotes the effective and ethical practice of human communication. Communication is a diverse discipline which includes inquiry by social scientists, humanists, and critical and cultural studies scholars. A body of scholarship and theory about all forms of human communication is the basis for an ever-expanding understanding of how we all communicate.

Department of Communication at Chonnam National University

The Department of Communication aims to prepare its students for careers in a variety of journalism and mass communication fields. It is expected that upon completion of the department's programs, students would be able to write, edit, and produce visuals and design for print and digital media.

The department offers both undergraduate and graduate curricula that mix academics with professional experience to ensure that students are well schooled in writing and editing and in analyzing the issues, conventions, and practices of journalism and mass communication. The departmental requirements give communication majors both guidance and flexibility in their selection of courses. Majors can pursue one of following tracks: journalism, advertising and PR, broadcasting, and cultural studies.

Professors

- Jong-Won Yoo, Ph.D.
  [Press Philosophy and History, Media Law, Media Ethics
  jwyoo@chonnam.ac.kr]
- Young-Khee Kim, Ph.D.
  [Critical Communication, International Communication, Political Communication
  ykkim@chonnam.ac.kr]
- Chung-min Joo, Ph.D.
  [New Media, Broadcasting, Media Policy
  cmjoo@chonnam.ac.kr]
- Oh-Hyeon Lee, Ph.D.
  [Cultural Studies, Media Criticism
  leohhy@hanmail.net]
- Kyun Soo Kim, Ph.D.
  [Journalism, New Media
  kimk@jnu.ac.kr]
- Jiyang-Bae, Ph.D.
  [PR, yang.bae@gmail.com]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 8 semesters. Students must also demonstrate proficiency with in intensive major and a foreign language.

■ What Do You Study?

First semester of freshman year
Understanding of Mass Media
Communication & Society

Second semester of freshman year
Practice in News writing
Understanding Journalism

First semester of sophomore
Korean Journalism History
Introduction to Broadcasting
Understanding Advertising
Radio Production
Human Communication
Media Writing and Reporting

Second semester of sophomore year
Introduction to Public Relation
Mass Communication Theories
Understanding of Mass Culture
Visual Arts Production
Digital Media and Society
Critical Studies in Mass Communication

First semester of junior year
World Communication History
Media Criticism
Mass Communication English
Internet Communication
Advertising & Public Relations Production
Photo Journalism
Speech Communication

Second semester of junior year
Media & Cultural Studies
Media Planning
Communication Philosophy
Digital Journalism
Research Methods in Mass Communication
Understanding Local Medal
Newspaper Editing

First semester of senior year
Communications Law and Ethics
Media & Modern Politics
Visual Communication
Seminar in Mass Media
Campaign Seminar

Second semester of senior year
Media Policy & Industry
Seminar in Cultural Planning
Seminar in Communication Studies
Mobile Communication

Required General Courses
Writing
Career Plan and Self Understanding

Teaching Profession Course
None

■ Careers

These job titles are not an exhaustive list, but rather, represent the types of positions most of our graduates enter:

Account Associate/Manager
Advertising Manager
Associate Producer
Broadcaster

Columnist
Community Relations
Copy Editor
Creative Director
Editor
Event Coordinator
Film Editor
Foreign Correspondent
Investigative Reporter
Journalist
Marketing PR Specialist
Market Researcher
Media Buyer
Media Planner
Media Relations Coordinator
Media Researcher
Newscaster
Newsletter Editor/Creator
News Reporter
Press Secretary
Professor
Program Coordinator
Promotion Manager
Public Information Specialist
Publishing Assistant/Manager
Reporter
Sales Associate
Scriptwriter
Sports Announcer
Teacher
Video Journalist
Website Designer
Writer

Employment areas are in:

Academia
Government
Private Corporations
Non-Profit Organizations
Publicly Traded Corporations

source: http://www.careers.uiowa.edu/majors/kit/printmajor.cfm?mid=3

Geography

Contact Information
Phone: +82-62-530-2680
Fax: +82-62-530-2689
URL: http://geo.jnu.ac.kr/

What is Geography?

Geography is a discipline that studies human and natural phenomena in related with the world. Geography particularly looks at interaction within and between human- and nature-driven events and changes, and it deals with the "where" and "patterns" with the concepts of space and location. In addition, it helps to figure out alternative plans of diverse spatial problems as they appear in reality. Therefore, geographers study nature, anthropogenic impacts, regions, and new technologies in spatial science.

Department of Geography

The Department of Geography is divided into various fields of study. It is rapidly changing modern topics and technologies. The Department plays an important role in producing experts in the field.

Professors

- Young-Jin Ahn, Ph.D.
  [Professor, Social-Economic Geography, yiahn@jnu.ac.kr]
- Taesoo Lee, Ph.D.
  [Professor, Environmental Geography, taesoo@jnu.ac.kr]
- Hwa-hwan Kim, Ph.D.
  [Professor, Geographic Information Systems, h2kim@jnu.ac.kr]
- Yena Song, Ph.D.
  [Associate Professor, Transportation Geography, Y.Song@jnu.ac.kr]
- Gwan-yong Jeong, Ph.D.
  [Associate Professor, Soil Geography, gyjeong@jnu.ac.kr]
- Myung In Ji, Ph.D.
  [Assistant Professor, Social Geography, myunginji@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, with 39 credits from Department courses.

What Do You Study?

Understanding Human Geography
Geography of Korea
Understanding Physical Geography
Cartography
Climatology
Quantitative Geography
Health Geography
Population Geography
Introduction to GIS and Lab
Field Observation and Trip

Geomorphology
Economic Geography
Cadastral Science
Urban Geography
Cadastral Survey and Practice Ⅰ
GIS Adaptation and Practice
Transportation Geography
Geography of Recreation and Tourism
Marketing Geography
Environment and Human Life
Cultural and Historical Geography
Regional Geography of South America
Cadastral Survey and Practice Ⅱ
History of Geography
Urban and Land
Financial Geography
Geography of Regional Development
Seminar in Cadastral Science
The Nature Of Geography
Geography Of America
Cadastral computer science
Soil Ecological Geography
Geography of Africa
Geography of Asia
Introduction of Remote Sensing
Hydrology and Water Quality Modeling
Political and Social Geography
Geographic Fieldwork Ⅰ
Geographic Fieldwork Ⅱ
Geographic Fieldwork Ⅲ

■ Careers

Recently, as the area of interest in geography has expanded to Geographic Information Systems (GIS) and environment problems, the need for geography experts is increasing.

Geography major students can obtain various careers such as GIS analysts, travel agents, civic servants, or regional researchers. The market has transformed and there is a strong possibility to become a cartographer, surveyor, or GIS professional.

Anthropology

Contact Information
Phone: +82-62-530-2690
Fax: +82-62-530-2699
E-mail: anthropos@naver.com
URL: http://illyu.jnu.ac.kr

■ What is Anthropology?

Anthropology is a discipline which studies the nature of human beings, and is divided into sub-disciplines of cultural anthropology, archaeology, linguistic anthropology, and physical anthropology. Cultural anthropology contributes to understanding cultural diversity and finding ways to solve problems which the contemporary world faces. Archaeology studies the origin and development of cultures, focusing on the material culture of prehistory which lacks written records, and ancient history which has few written documents. Linguistic anthropology is an area of exploring the relationships between language and culture. Physical anthropology studies human evolution and current health issues.

■ School of Anthropology at Chonnam National University

Cultural Anthropology and Archaeology, in contrast to other disciplines which tend to become specialized, offers students a broad range of means of understanding human beings and cultures.

Students majoring in anthropology can carry out a wide range of activities in various areas of society after they graduate.

■ Professors

- Kyung-Hak Kim, Ph.D.
  [Professor, Cultural Anthropology, khkim@chonnam.ac.kr]
- Sung-Heup Hong, Ph.D.
  [Professor, Cultural Anthropology, sibung@chonnam.ac.kr]
- Ki-Jung Lee, Ph.D.
  [Professor, Visual Anthropology, kjunglee@chonnam.ac.kr]
- Jin-Seon Jo, Ph.D.
  [Professor, Archaeology, jojinseon@hanmail.net]
- Minkoo Kim, Ph.D.
  [Professor, Archaeology, minkoo@jnu.ac.kr]
- Jina Heo, Ph.D.
  [Assistant Professor, Archaeology, jinaheo@jnu.ac.kr]
- Go-Woon Noh, Ph.D.
  [Assistant Professor, Cultural Anthropology, gowoonnoh@jnu.ac.kr]

■ Degree Requirements

Students are required to complete the following mandatory courses:

Human Being and Culture in Global Era

Human Evolution and Ancient Civilization

Theory and Method in Archaeology
History of Anthropological Studies
Analysis of Archaeological Artifacts
Research Methods and Practice in Anthropology
Also Students are required to earn 21 credits from electives

■ What Do You Study?

Theory and Method in Archaeology (3)
History of Anthropological Studies (3)
Analysis of Archaeological Artifacts (3)
Research Methods and Practice in Anthropology (3)
Understanding Archaeology (3)
Archaeological Investigation on Civilization (3)
Study of Korea Culture (3)
Culture and Gender (3)
Understanding Cultural Heritage (3)
Film and culture (3)
Archaeology of East Asia (3)
Culture and Personality (3)
Origins of Human culture (3)
Food and Culture Around the World (3)
Prehistoric Archaeology of Korea (3)
Marriage and Family (3)
Understanding of Rural Cultures (3)
Development of Tools and Technologies (3)
Excavation and Exploration (3)
Understanding World Heritage (3)
Visual Anthropology (3)
Historical Archaeology of Korea (3)
The Anthropology Tourism and Festival (3)
Culture and Politics (3)
Anthropology of Religion (3)
Museums and Cultural Heritage (3)
Migration and Cultural Diversity (3)
Understanding Religious Cultural Heritage (3)
Ancient States and Tombs (3)
Ancient Agricultural and Environment (3)
Culture and Economic Behavior (3)
American and European Archaeology (3)
Selected Area Studies (3)
Study of Urban Cultures (3)
Cultural Heritage Storytelling (3)
Studies in Contemporary Society problems (3)
Preservation and Utilization of Cultural Heritage (3)
Special Topics in Anthropology (3)
Globalization and Local Cultures (3)
Human Being and Culture in Global Era (3)
Human Evolution and Ancient Civilization (3)

■ Careers

Trained in cross-cultural perspectives, graduates can work as area specialists in various research institutes and international organizations, or play important roles in diplomatic relations and information production industries. They also have good opportunities to work in museums.

Museums look for people trained in anthropology who can systematically conduct surveys, analyses, exhibitions, and education on cultural resources and traditions being destroyed due to rapid industrialization. Anthropology is a discipline which studies the nature of human beings, and is divided into sub-disciplines of cultural anthropology, archaeology, linguistic anthropology, and physical anthropology. Cultural anthropology contributes to understanding cultural diversity and finding ways to solve problems which the contemporary world faces. Archaeology studies the origin and development of cultures, focusing on the material culture of prehistory which lacks written records, and ancient history which has few written documents. Linguistic anthropology is an area of exploring the relationships between language and culture. Physical anthropology studies human evolution and current health issues.

College of Human Ecology

Contact Information
Phone: +82-62-530-1300~7
Fax: +82-62-530-1310
URL: http://humanecology.jnu.ac.kr

Departments

- Department of Family Environment and Welfare
- Division of Food and Nutrition
- Department of Clothing and Textiles

Affiliated Research Centers

- Research Institute for Human Ecology
- Fashion-cultural Commodities Design R&D Center
- Center for Bio-resources and New Materials
- CNU Social Service Research Application Center

Family Environment and Welfare

Contact Information
Tel: +82-62-530-1320, 1380
Fax: +82-62-530-1329
E-mail: A4952@jnu.ac.kr
URL: http://welfare.jnu.ac.kr

What is Family Environment and Welfare?

The goal of the Department of Family Environment and Welfare is to contribute to the development of family welfare and quality of life through the systematic studies of interaction between humans and family environment. To achieve this goal, the Department provides many academic programs about basic theories and practice related to family environment and welfare. Furthermore it also trains professionals who manage special tasks and social problems on family welfare.

Department of Family Environment and Welfare at Chonnam National University

This Department was established in 1981 and changed its name from Home Management to Family Environment and Welfare in 2002. The Department has 265 students and 7 faculty members.

Major fields consist of child development & counseling, consumer sciences, and family studies & social welfare.

Professors

- Eun Sil Hong, Ph.D.
  [Professor, Consumer Sciences, esmail@jnu.ac.kr]
- Jeonghwa Lee, Ph.D.
  [Professor, Welfare for the Elderly, jhlee2@jnu.ac.kr]
- Joo Yeon Lee, Ph.D.
  [Professor, Child Development & Child Care, idscot@jnu.ac.kr]
- Jeong Ha Hwang, Ph.D.
  [Associate Professor, Social Welfare, jhwang@jnu.ac.kr]
- Ji yeon Son, Ph.D.
  [Associate Professor, Financial literacy & wellbeing, Consumer protection policy, jiyeonson@jnu.ac.kr]
- Yuen Mi Cheon, Ph.D.
  [Assistant Professor, Child family studies, ycheon@jnu.ac.kr]
- Ji Eun Kim, Ph.D.
  [Assistant Professor, Healthcare, Mental Health Social Welfare, Social Welfare Practice, and Convergence Research, junekim@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits with 48 credits from electives.

■ What Do You Study?

▮ Electives

Childcare Practicum
Child Day Care Curriculum
Child Welfare
Childcare Teacher Education
Language Education for Young Children
Counseling for Children
Child Observation and Behavioral Research
Development and Assessment on Day Care Program
Infant and Toddler Development
Mental Hygiene
Play and Play therapy
Safety Management for Children
Science Education for Young Children
Teaching Methods for Infants and Young Children
Teaching of Art for Early Children
Theories and Studies on Child Day Care
The Family
Theory of Home Economics Education
Consumer Science
Household Economics
Consumer Decision-Making
Cousumer Psychology
Consumer Counseling & Practice
Consumer Education and Information
Management in Consumer Finance
Consumer Policy
Practice of Consumption Trend Analysis
Analysis of consumer Big Data
Personal Asset Portfolio and Insurance Planning
Investment and Insurances
Consumer Satisfaction Management
Family Life Education
Family Relationships
Family Resources Decision-Making
Family Counseling & Family Therapy
Housing
Human and Welfare
Human Behavior & Social Environment
Institutional Household Management
Introduction to Healthy Families
Introduction to Housing Welfare
Introduction to Social Welfare
Practice in Family Resource Management
Research Methods for Social Welfare
Skills and Techniques for Social Work Practice
Community & Social Welfare
Community Welfare
Social Welfare Administration
Social Welfare Law and Practice
Social Welfare for the Elderly
Social Welfare Policy
Social Work Practice Theories
Social Work Practicum
Social Work with Family
Social Welfare for the Disabled

▮ Teaching Profession Courses

A Course on Home Economics Logic and Essay Writing
Research and Teaching of Home Economics Materials
Theory of Home Education

▮ Minor Courses

- Family Relationships
- Household Economics
- Infant And Toddler Development

For minors, a total 21 credits including these 3 subjects must be completed

■ Careers

Students can obtain national qualifications, such as for becoming nursery school teachers, social workers or other qualifications such as play therapists, or consumer counselors

Also, some students can get middle and high school teaching qualifications in home economics and

can enroll in the Family Environment & Welfare or Home Economics major in the graduate school of education.

Graduates from our department work as professors, researchers in their major fields, instructors, public workers responsible for social welfare, and heads of kindergartens or social welfare organizations.

Division of Food & Nutrition

__Contact Information
Tel: +82-62-530-1330,1350
Fax: +82-62-530-1339
E-mail: A0093@jnu.ac.kr
URL: http://fn.jnu.ac.kr

■ What is the Division of Food and Nutrition?

Food and Nutrition is the science to understand the roles of nutrients in human physiology and the characteristics of foods. The curriculum of the Division focuses on the basic and applied sciences related to food science, nutrition science, and foodservice management. The ultimate goal is to educate students to become professional leaders who are able to contribute to the promotion of health and welfare of humans and to execute research in the field of food and nutrition. The Division of Food and Nutrition consists of two majors: Food and Bioscience, and Nutrition and Life Science.

■ Food Science Major

This major emphasizes a comprehensive understanding for the function of food, including chemical, biological and physical properties. The aim of the food science major is to educate students as professionals in this field by providing a wide variety of lectures, experiments and practice courses covering cooking, food processing, food preservation, food materials, food service management, and food hygiene. The major offers field applicable courses, including analysis of nutrients and food components related to bioscience, flavors, pigmentation, exture, fermented foods, and food technology.

■ Nutrition Science Major

This major focuses on the understanding of nutrient metabolism and the relationship between human nutrition and health. The major's goal is to educate students as nutrition professionals who contribute to the prevention of nutrition- and aging-related diseases. To understand nutrition and life science, basic and advanced classes are provided. Also, the major offers ready-to-work classes (Practice in Personalized Nutrition Therapy, Nutrition Education and Counseling Practice, Diet Therapy Lab and Field Work for Dietitian) and specialized tracks for clinical nutritionists, public health professionals, nutrition teachers in schools, and development of nutraceuticals.

■ Professors

- Tai-Sun Shin, Ph.D.
  [Professor, Food Analysis, shints@jnu.ac.kr, 062-530-1352]
- Bok-Mi Jung, Ph.D.
  [Professor, Food Service, jbm@jnu.ac.kr, 062-530-1353]
- Woojin Jun, Ph.D.
  [Professor, Functional Food,

wjjun@chonnam.ac.kr, 062-530-1337]
- Young-Ran Heo, Ph.D.
  [Professor, Nutrition,
  yrhuh@jnu.ac.kr, 062-530-1338]
- Hyun-Jung Chung, Ph.D.
  [Professor, Food Chemistry,
  hchung@jnu.ac.kr, 062-530-1333]
- Young-Shick Hong, Ph.D.
  [Professor, Nutritional Metabolomics,
  chtiger@jnu.ac.kr, 062-530-1331]
- Jung-Mi Yun, Ph.D.
  [Professor, Nutrition Education and Epigenetics,
  sosung75@jnu.ac.kr, 062-530-1332]
- Clara Yongjoo Park, Ph.D.
  [Associate Professor, Clinical Nutrition
  parkcy@jnu.ac.kr, 062-530-1354]
- Ok-Kyung Kim, Ph.D.
  [Associate Professor, Nutritional Biochemistry,
  20woskxm@jnu.ac.kr, 062-530-1334]
- Mina Kim, Ph.D.
  [Assistant Professor, Sensory and consumer
  science, makim@jnu.ac.kr, 062-530-1336]
- Dong-Hyun Jung, Ph.D.
  [Assistant Professor, Food microbiology,
  dhjung@chonnam.edu, 062-530-1335]

■ Degree Requirements

Students are required to earn 130 credits with 48 credits from major courses. Students must pass a comprehensive exam for a bachelor's degree and demonstrate proficiency in a foreign language.

■ What Do You Study? (Course list)

Basic Nutrition
Cultural Aspects of Food and Nutrition
Food Microbiology
Food Science
Human Physiology
Organic Chemistry
Principles of Food Preparation

▮ Food Science Major

Applied Food Science and Practice
Bakery and Confectionary Lab
Clinical Nutrition
Diet Therapy
Experimental Design and Statistic
Food Nutrient Analysis
Food Hygiene
Food Preservation
Food Marketing & Services
Food Pigment
Functional Foods Lab
Field Work for Dietitian
Food Processing
Food Enzymology
Food Microbiology Lab
Food Chemistry
Food Chemistry Lab
Food Catering
Flavor Science
Food Patent and Inauguration
Food Sensory Evaluation and Lab
Food Rheology
Food Fermentation and Lab
Food Hygiene Related Laws
HACCP, GMP and Lab
Institutional Food Service Management
Instrumental Analysis and Lab
Laboratory for Analysis of Food Nutrients
Management of Food Service
Nutrition Chemistry
Nutrition in Life Cycle
Nutrition Education
Nutritional Assessment
Nutrition and Biochemistry
Practice in Quantity Food Production
Practice in International Food Preparation

Practice in Development of Special Foods
Science of Functional Food
Science of Biofood Materials
Study of Food Physiological Activities
Understanding of Regional Bio-Industry

▮ Nutrition Science Major

Applied Food Science and Practice
Aging and Nutrition
Advanced Nutrition
Biochemistry
Biochemistry Lab
Childhood Development & Nutrition
Clinical Nutrition
Community Nutrition
Current Topics in Nutrition
Diet Therapy Lab
Diet Therapy
Food Chemistry
Food Hygiene
Food service Management and Marketing Strategy
Food Processing and Preservation
Field Work for Dietitian
Food Patent and Inauguration
Human Resources Management
Issues in International Nutrition and Policy
Institutional Food Service Management
Law in Food Hygiene
Management in Quantity Food Production
Molecular Nutrition
Nutrition in Life Cycle
Nutrition and Biochemistry
Nutritional Epidemiology
Nutrition and Cell Signaling
Nutritional Assessment & Laboratory
Nutrition Education and Counseling Practice
Nutrition Lab
Nutrition during Pregnancy and Lactation
Nutritional Management in Institution
Nutritional Pathophysiology
Public Health
Practice in Personalized Nutrition Therapy
Planning and Evaluation of Nutrition Program
Phytonutrient Metabolism
Practice in Development of Special Foods
Statistics for Natural Scientists
Sports Nutrition

■ Careers

Graduates are qualified to apply for license certificate tests as follows

- Dietitian
- Sanitary Technician
- Nutrition Teacher
- Engineer Food Processing
- Professors/Educators

□Graduates have a wide variety of employment opportunities as follows:

- Dietietians in hospitals, schools, and industries
- Nutrition teachers at elementary, middle, and high schools
- Nutrition researcher in food industries, government research institutes, healthcare organizations, and academia

Clothing & Textiles

Contact Information
Tel: +82-62-530-1340
Fax: +82-62-530-1349
E-mail: a0565@jnu.ac.kr
URL: http://clothing.jnu.ac.kr/

What is Clothing and Textiles?

Clothing and Textiles is an academic discipline mainly concerned with textile materials, IT fashion, designing fashion products, and investigating consumption behavior. It acquires a broad and comprehensive understanding of textiles and apparel products based on the knowledge of natural science, technology, art and social science.

Dept of Clothing & Textiles at Chonnam National University

The Department of Clothing and Textiles prepares students for careers in textiles, fashion design and production, textiles marketing and merchandising, fashion industry and business at national and international levels. The program educates students about the development and use of textile and apparel products. The Department has a textile and apparel laboratory equipped with modern instrumentation for material evaluation a controlled environmental CAD and DTP facilities.

Professors

- Soojeong Bae, Ph.D.
  [Professor, Fashion Design, sjbae@jnu.ac.kr]
- Misuk Lee, Ph.D.
  [Professor, Fashion Design, ms1347@jnu.ac.kr]
- Wolhee Do, Ph.D.
  [Professor, Clothing Engineering, whdo@jnu.ac.kr]
- Eunjung Kim, Ph.D.
  [Professor, Traditional Costume, kimej@jnu.ac.kr]
- Sookyoung Ahn, Ph.D.
  [Professor, Fashion marketing skahn@jnu.ac.kr]
- Seokho Cho, Ph.D.
  [Professor,Wearable Electronics jsh818@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, with 103 credits from Department courses and 27 credits from electives. Students must also demonstrate proficiency in a foreign language.

What Do You Study?

Core Courses

Basic Fashion Design & Drawing
Fashion Color and Image Making
Making Practice Basic for Korean Clothing

Practice of Clothing Construction

IT Fashion

VMD & Communication

▮ Electives

Sewing and Trimming
Fashion Marketing and Consumer
Theory of Fashion Design
IT Convergence Programming
History of Western Costume
Smart Clothing Technology
Technical Design
Traditional Costume Design Item
Fashion Illustration
Folk Costume Design Workshop
Introduction to Smart Textile
Tailoring
Fashion Media Production (Capstone Design)
Fashion Branding
Digital Fashion Business
Apparel Dyeing & Printing Lab.
Fashion Design CAD
Analysis of Fashion Information and Design (Capstone Design)
Draping
Apparel Material Actual Planning Work
Textile CAD
Fashion Design Workshop
Textile-based Wearable Electronic Devices
Fashion Startup (Capstone Design)
Apparel Pattern CAD (Capstone Design)
Understanding of Korean Costume Culture
Global Fashion Business
Up-cycling Fashion Design Start-up (Capstone Design)
Textile science
Clothing Industry and Advanced Materials
Smart Fashion Design
Washing and Management of Textile
Basic Statistics of Clothing Research

▮ Minor Courses

Fashion Color and Image Making
Practice of Clothing Construction

■ Careers

After completing the required programs, graduates can seek diverse career opportunities in the textile and apparel business sector as textile designers, textile converters, fashion designers, hanbok designers, fashion illustrators, fashion colorists, accessory designers, fashion merchandisers, fashion retailers, fashion promoters, and models, among others.

College of Fisheries and Ocean Sciences

Contact Information
Phone: +82-61-659-7102~7108
Fax: +82-61-659-7109
URL: http://sea.jnu.ac.kr

School of Marine Technology

- Department of Power System Engineering
- Department of Aqualife Medicine
- Department of Smart Fisheries Resources Management
- Department of Aqualife Science
- Naval Architecture and Ocean Engineering
- Department of Maritime Police Science
- Department of Marine Bio Food Science
- Marine Production Management
- Department of Ocean Integrated Science
- Department of Fisheries, Marine Areas, Industry, Tourism & Leisure

Department of Power System Engineering

Contact Information
Tel: +82-61-659-7130
Fax: +82-61-659-7139
E-mail: engine@jnu.ac.kr
URL: http://engineer.jnu.ac.kr/

■ What is Power System Engineering?

Power System Engineering is an academic field combining the mechanical engineering and the electrical/elctronics engineering. Power System Engineering deals with the design, manufacture, control, and management of power machinery, thermal-fluid machinery, electrical/electronics machinery, etc.

■ Department of Power System Engineering

The Department of Power System Engineering aims for nurturing technical manpower for machinery, electrical, and maritime industries and researching state-of-the-art technology in the field of power system engineering. The Department of Power System Engineering mainly teaches the basic knowledge and technology in the fields of mechanical engineering and electrical/electronics engineering. Students can get 'Third Class Engineer Officier Certificate' and a variety of licenses, such as 'Engineer General Machinery', 'Engineer Machinery Design', 'Engineer Electricity', 'Engineer Mechatronics'.

■ Professors

- Kyong-Uk Yang, Ph.D.
  [Professor, Hydraulic-Pneumatic Control, yangku@jnu.ac.kr]
- Woo-Gyeong Wang, Ph.D.
  [Professor, Internal Combustion Engine, wangwk@jnu.ac.kr]
- Myung-Soo Choi, Ph.D.
  [Professor, Mechanical Vibration, engine@jnu.ac.kr]
- Kyung-Hun Shin, Ph.D.
  [Assistant Professor, Electric Machine. kshin@jnu.ac.kr]

■ Degree Requirements

Major	Liberal Arts	Major Credits			General Electives	Graduation Credits
		Minimum Recognition	Enhancement	Total		
Power System Engineering	30	48	21	69	31	130

Students are required to earn the above credits, as well as demonstrate their foreign language proficiency (e.g., TOEIC score of 550 or higher)

■ What Do You Study?

Thermodynamics & Exercises
Fluid Mechanics & Exercises
Strength of Materials & Exercises
Internal Combustion Engine
Engineering Mathematics
Engineering Mechanics
Engineering Materials
Electrical Engineering
Introduction to Naval Architecture
Workshop Practice
Auxiliary Machinery
Fuel and Combustion Engineering
Electronic Engineering
Programming and Practice
Machine Design And Exercises
Mechanics of Machinery and Experiments
Refrigeration-Air Conditioning & Practice
External Combustion Engines
Fluid Machinery
Automatic Control
Mechanical Engineering Practice
Comprehensive training of marine engineering
Engine English
Internal Combustion Engine Practice
Auxiliary Machinery Practice
Sequence Control Practice
External Combustion Engine Practice
Electric Electronic Practice
Maritime Law & International Entente
Measurement Engineering
Engine Management & Safety
Embarkation Training
Hydraulic Engineering-Pneumatic
Marine Pollution Response Practice
Leadership & Teamwork [ERM]
Analysis of Dynamic System
Noise & Vibration Engineering
Heat Transfer
Electric Machinery
Propulsion Engineering
Computer Aided Mechanical Design Practice
3D CAD & Practice
Introduction to Engineering
Capstone Design 1 & 2

■ Careers

Graduates are able to pursue careers in central and local government organizations (e.g., Ministry of Oceans and Fisheries, Ministry of National Defense, Korea Coast Guard, and Customs), public corporations (e.g., Port Authority, Korea Maritime Transportation Safety Authority, and Korea Electric Power Corporation), and private enterprise (e.g., shipping companies, shipbuilding companies, Korean Register, and automobile companies). Also, some graduates go to graduate school to become experts in the field of power system engineering.

Department of Aqualife Medicine

Contact Information
Phone: +82-61-659-7170
Fax: +82-61-659-7179
Email: sungju@jnu.ac.kr
URL: http://fishpath.jnu.ac.kr

What is Aqualife Medicine?

Aqualife Medicine enable the studies in basic medical sciences, fish medicines, general hygiene management, and the diagnosis, treatment, and prevention of fish disease. On the basis of fundamental studies, the major aims are to cultivate qualified experts in the field of aqualife medicine and public sanitation, and to train fish doctors to contribute fisheries' production by effectively managing fish and shellfish diseases.

Department of Aqualife Medicine

The Department of Aqualife Medicine was established in 1995 for the purpose of research and education of disease diagnosis and control of aquatic organisms to produce safe and high quality food for human consumption. Students have many opportunities to conduct lab experiments, to get on-field training, practice interviews, overseas training and master in scientific techniques. Students are encouraged to promote their professional qualifications by pursuing graduate studies.

Professors

- Eunheui Kim, Ph.D.
  [Professor, Pathogenic Bacteriology and Genetics, ehkim@jnu.ac.kr]
- Jung Sick Lee, Ph.D.
  [Professor, Fish and Shellfish Anatomy, ljs@jnu.ac.kr]
- Myung-Joo Oh, Ph.D.
  [Professor, Fish Virology and Parasitology, ohmj@jnu.ac.kr]
- Heung-Yun Kim, Ph.D.
  [Professor, Fish Physiology and Toxicophysiology, hykim@jnu.ac.kr]
- Sung-ju Jung, Ph.D.
  [Professor, Fish Pathology and Immunology, sungju@jnu.ac.kr]
- So Young Kang, Ph.D.
  [Professor, Fish Pharmacology and Pharmacognosy sykang1@jnu.ac.kr]
- Toyohiko Nishizawa, Ph.D.
  [Professor, Virology and Cell Biology jjnishi@jnu.ac.kr]
- Wi-Sik Kim, Ph.D.
  [Associate Professor, Clinical diseases, wisky@jnu.ac.kr]

■ Degree Requirements

Major	Liberal Arts	Major Credits			General Electives	Graduation Credits
		Minimum Recognition	Enhancement	Total		
Aqualife Medicine	30			83	27	140

Students are required to earn the above credits, as well as demonstrate proficiency in a foreign language.

■ What Do You Study?

Life Science and Lab
Introduction to Aqualife Medicine
General Chemistry and Lab
Medical Biochemistry and Lab 1
Medical Biochemistry and Lab 2
Principles of Aqualife Medicine
Clinical Lecture of Aqualife Medicine
Water Analysis and Lab.
Management of Fish Hospital and Training
Aquatic Animal and Ecology
Introduction to Aquaculture
Aquatic Environment and Disease
Anatomy of Aquatic Animal and Lab.
Fish Parasitology and Lab.
Fish Immunology and Lab.
Molecular Biology and Lab.
Nutrition and Nutritional Diseases of Aquatic Animal
General Histology and Lab.
Virology & Lab
Histology of Fisheries Animal and Lab.
Aquatic Animal Physiology and Lab.
Bacterial Fish Pathogens and Lab.
Microbiology and Lab.
Hematology and Lab.
Developmental Biology and Lab.(Capstone Design)
Fisheries Pharmacology and Lab. 1
Fisheries Pharmacology and Lab. 2(Capstone Design)
Pathology of Fisheries Animal and Lab(Capstone Design)
Pathology of Noninfectious Disease and Lab.
Ecology of Aquatic Disease
Study of Clinical Cases
Field Management of Fish Diseases
Invertebrate Diseases and Lab.
Disease of Seaweeds and Lab.
Aquatic Toxicology and Lab.
Smart fish health care
Virus and Viral Disease
Diseases of Ornamental Fishes and Lab.
Aquatic Laws
Bacteriology and Lab
Aquatic Public Health(Capstone Design)
Organic Chemistry and Lab
Principles of Fisheries

■ Careers

Category	Career Fields
Opening of Business	- Fish Health Center
Government Organizations	- National Fishery Products Quality Management Service(NFQS) and related organizations - Public servants in charge of fishery affairs in the Provincial, Municipal, and County offices - National Institute of Fisheries Science – Korea Ocean & Fisheries Institute - Research institutes under local governments, corporate research centers, etc.

Category	Career Fields
General Corporations	- Pharmaceutical companies - Animal feed manufacturers - Aquarium
Fishery-related Fields	- National Federation of Fisheries Cooperatives - Korea Fisheries Cooperatives - Joint fishery product market - Fishery industry - Fishery product distribution & processing companies - Launch of Fish Disease Control Center - Launch of office in charge of medicines for aquatic organisms

Department of Smart Fisheries Resources Management

Contact Information
Tel: +82-61-659-7410
Fax: +82-61-659-7419
URL: https://smartfish.jnu.ac.kr

What is the Smart Fisheries Resources Management?

Smart Fishery Resource Management is the use of information and communication technology (ICT) for research, analysis, evaluation, utilization, and conservation of fishery resources.

Department of Smart Fisheries Resources Management?

The Department of Smart Fisheries Resource Management is a cutting-edge department newly established at College of Fisheries and Maritime Affairs in Chonnam National University in 2021 to educate fisheries science, oceanography, and information and communication technology (ICT) as a single course for the first time in Korea.

The Department of Smart Fisheries Resources Management teaches how to quickly and conveniently analyze various data on major fishery resources using big data, artificial intelligence(AI), and the Internet of Things(IOT). Undergraduate students of the department are nurtured as experts who can predict and continuously manage fishery resource fluctuations based on the systematic curriculum. The curriculum is structured so that students can utilize the latest ICT in the field based on a basic understanding of fisheries science and oceanography. Graduates will have the specialized knowledge and skills needed for future jobs in the fields of fisheries and oceanography.

Professors

- Man-Ki Jeong, Ph.D.
  [Professor, Marine Biodiversity, jmgdeux@jnu.ac.kr]
- In-Yeong Kwon, Ph.D.
  [Professor, Fish behavior inyeong1201@jnu.ac.kr]
- Hee-Teak Ceong, Ph.D.
  [Professor, Distributed Systems and Multimedia, htceong@jnu.ac.kr]
- Soon-Hee Han, Ph.D.
  [Professor, Compiler and Mobile Systems, shhan@jnu.ac.kr]

Degree Requirements

Generally, students must earn 130 credits over a four-year period (average 18 credits per semester).

■ What Do You Study?

Marine Environment and Fishery Resource Management
Introduction of Smart Fisheries Science
Basic Programming and Practice Ⅰ
Basic Programming and Practice Ⅱ
Introduction of Fisheries Resources Biology
Fisheries and Oceanography
Population and community ecology
Data Mining Understanding and Practice
Biodiversity and Image Analysis Practice
Introduction to artificial intelligence and fisheries applications
Smart Fisheries Resources Business Management
Smart Web programming
Biostatistics and Practice
Understanding of Fisheries Resource Management Policy
Introduction to Fishery Resources
Understanding of Computer World
Marine plankton ecology and practice
Understanding of Marine ecosystem models
Ocean survey method and practice
ICT-based fishery resource research practice
International maritime law
Aquatic Animal Behavior
Understanding of Fisheries Resource Management Law
Data Processing for Fishery Resource
Fishery resource research methodology and practice
Understanding Fishery Resources Management Practice 1
Understanding Fishery Resources Management Practice 2
Introduction of fishery stock assessment model
Nekton Biology
Understanding of fisheries resource management based on machine learning
Aquatic animal behavior pattern analysis(Capstone design)
Fishery resource big data analysis and visualization
Fisheries Resource Bioinformatics and Practice
Artificial Intelligence Design and Practice
Maritime International relations theory
Marine Animal Ecology and Practice
Fishery Resources Stock Analysis and Practice I
Fishery Resources Stock Analysis and Practice II
Understanding of global fisheries resource management
Introduction of Smart aquafarm
Marine biotechnology and practice(Capstone design)
Marine Ecosystem-Based Fisheries Resource Model
Ecosystem data pattern analysis and practice
Fisheries Resource Assessment
Introduction of Smart aquafarm operations and practice (Capstone design)
Marine life resources data analysis(Capstone design)
Marine Application Mobile Program Practice

■ Careers

1) Officials in the field of marine and fisheries (Research official of National Fisheries Research & Development Institute(NFRDI) / Korea Hydrographic and Oceanographic Agency(KHOA))
2) Researchers at public institutions and local governments (Korea Fisheries Resources Agency(FIRA), Korea Institute of Ocean Science and Technology(KIOST))
3) IT companies in the fishery and marine sector (Smart Aquaculture Cluster complex, start-ups)
4) Employment-related National License Big Data Analysis Engineer, Data Processing Engineer, Industrial Engineer Office Automation, Industrial Engineer Ocean Survey, Engineer Ocean Environment, Smart Fishery Resource Management License (private license), etc.

Department of Aqualife Science

Contact Information
Tel: +82-61-659-7160
Fax: +82-61-659-7169
URL: http://aqua.jnu.ac.kr

What is the Department of Aqualife science?

Aquaculture is mainly concerned with the science and art of marine biology, aquaculture and fisheries. The department aims to have students obtain good technical knowledge on marine fisheries resources and also contribute to the sustainable use and increased production of fish.

The course provides a solid foundation and applied studies in zoologies of vertebrates and invertebrates, Phycology, aquaculture, aquaculture environment ecology, physiology, ecology, genetics, molecular biology, fisheries business management, etc.

The department was established the Yeosu Public Fisheries School in May of 1915 and has produced a multitude of alumni in the field of aquaculture and fisheries over the past 80 years.

Now it has gathered an able and talented research staff in various majors and runs undergraduate and post-graduate courses and additionally graduate schools of industry and education.

After graduation, students may pursue careers in the field of research institutes(National Fisheries Research and Development Institute, Korea Institute of Ocean Science and Technology, research institutes of local governments), administrative agencies (Maritime and fisheries ministry and local governments) and companies feeds, and seafood to name but a few.

School of Aqualife science at Chonnam National University

The Department aims to have students acquire good technical knowledge of marine biology and develop their potential capacity to utilize, conserve, and manage marine resources. To this end, it provides specialized subjects regarding fish, shellfish, and seaweed farming along with a basic knowledge of aquaculture.

The Department is composed of eight main laboratories: aquaculture environment ecology, resource organisms, fish culture and nutrition, reproduction organisms, invertebrate culture, algae culture, fisheries business management, and molecular physiology.

Professors

- Won Kyo Lee, Ph.D.
  [Professor, Reproduction organisms, wklee@jnu.ac.kr, +82-61-659-7161]
- Kyoung Ho Kang, Ph.D.
  [Professor, Invertebrate Culture, mobidic@jnu.ac.kr, +82-61-659-7165]
- Kyeong Ho Han, Ph.D.
  [Professor, Ichthyology Ecology and Taxonomy, aqua05@jnu.ac.kr, +82-61-659-7163]
- Kang Hee Kho, Ph.D.

[Professor, Molecular Physiology, kkh@jnu.ac.kr, +82-61-659-7168]

• Sang Duk Choi, Ph.D.

[Professor, Aquaculture Environment Ecology, choisd@jnu.ac.kr, +82-61-659-7166]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years, with 18 credits earned on average per semester.

■ What Do You Study?

Physiology of Aquatic Organism and Experiments (3)
Aquatic Breeding Science and LAB (3)
Invertebrate Zoology and Lab (3)
Developmental Biology lecture and experiment (3)
Cell Biology lecture and experiment (3)
Fisheries Oceanography and Lab (3)
Ichthyology and experiment (3)
Chemistry lecture and experiment (3)
Phycology and Lab (3)
Introduction and Experiment to Aquaculture (3)
Biological chemistry and Lab (3)
Fish culture and Lab (3)
Phycocultivation Science and Lab (3)
Coastal fisheries biology and Lab (3)
Aquaculture Biology Disease and Lab (3)
Invertebrate culture and Experiment (3)
Skin-Scuba Diving (1)
Readings in Aquaculture texts and Practice (3)
Marine Retoration Ecology and Field Training (3)
Molecular biology and Experiments (3)
Biotechnology and Experiments (3)
Quality control and experimental fisheries (3)
Aquaculture expert learning and training (3)
Zoology and Experiment (3)
Botany and experiment (3)
Fresh-water Fish culture and experiment (3)
Marine-fish Culture and Lab (3)
Fisheries Culture Field Practice (2)
Fresh-water Biology and lab (3)
Principles of Fisheries and law (3)
Experimental Biology and practice (3)
Fisheries Business Management and Practice (3)
Aqua-Enviroment and Ecology & Lab (3)
Food Organism and Lab (3)
Fresh-water Biology and lab (3)
Aquaculture system and lab (3)
Aquaculture seed production and practice (3)
Fish Nutrition and Lab (3)
Animal Physiology & Lab (3)
Plant Physiology & Lab (3)
Genetics and Lab (3)
Organic Chemistry and Lab (3)
Fisheries Resources Dynamics (3)
Marine Ecology and Lab (3)

■ Careers

Graduates may seek careers with the Ministry of Maritime Affairs and Fisheries, the Korea Ocean Research and Development Institute, and the National Fisheries Research and Development Institute. They may find positions as civil servants, fisheries officers, teachers, professors, and fisheries managers.

Naval Architecture and Ocean Engineering

Contact Information
Tel: +82-61-659-7150
Fax: +82-61-659-7159
E-mail: chiohj@jnu.ac.kr
URL: http://oceaneng.jnu.ac.kr/

What is the Naval Architecture and Ocean Engineering?

Naval architecture and ocean engineering focuses on research and education in a variety of areas from basic theory to advanced technology on ship and offshore structures. The final goal of the Department lies in the design and production of the reliable and cost-effective transport systems and offshore structures which can carry out missions successfully in harsh ocean environments. The research scopes of naval architecture consist of resistance and propulsion, propulsors, structures and materials, motion and maneuverability, noise and vibration, and welding. Ocean engineering involves various scopes of technical problems that arise during the design, construction, load-out, and operation of various forms of structures developed to meet the needs of offshore petroleum and construction industries. Research on the marine environment itself is also one of the major research fields of the Department. To meet increasingly complex technical demands, the Department extends research fields to cover rigorous analysis of detailed subjects using powerful computers. In particular, it offers on-board training course on university-owned research and training ships.

Department of Naval Architecture and Ocean Engineering at Chonnam National University

1997. 3 Establishment of Department of Ocean Engineering
1999. 3 Reorganization of Department of Ocean Engineering and Ocean Environmental System
2006. 3 Reorganization of Department of Ocean Engineering, Ocean Environmental System, Aquaculture, Bio-resources Utilization, Marine Production Management and Power System Engineering
2007. 9 Renaming of Naval Architecture and Ocean Engineering
2020. 3 Abolition Faculty of Marine Technology and Separation Department of Naval Architecture and Ocean Engineering

Professors

- Hee-Jong Choi, Ph.D.
  [Professor, Ship Design, chiohj@jnu.ac.kr]
- Jee-Hun Song, Ph.D.
  [Professor, Ship Structural Vibration, jhs@jnu.ac.kr]
- Jae-Min Lee, Ph.D.
  [Professor, Applied Mechanics, jae27v@jnu.ac.kr]
- Ok-Sam Kim, Ph.D.

[Professor, Manufacturing Engineering of Ships, kos@jnu.ac.kr]
- Il-Heum Park, Ph.D.
[Professor, Coastal and Ocean Engineering, parkih@jnu.ac.kr]
- Jong-Kyu Kim, Ph.D.
[Professor, Ocean Informatics, kimjk@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years, with 18 credits earned on average per semester.

■ What Do You Study?

Engineering Mathematics 1 (3)
Engineering Mathematics 2 (3)
Dynamics of Structures and Exercise (3)
Structure Dynamics (3)
Structural Dynamics (3)
Structural Vibration (3)
Naval Architectural Calculation and Practice (3)
Shipbuilding technology (3)
Ship structural design (3)
Auxiliaries of ship (3)
Manufacturing of Shipbuilding (3)
Ship Acoustic and Noise Engineering (3)
Welding Engineering of Ship and Practice (3)
Ship Motion and Controllability (3)
Ship Equipments (3)
Material Science of Ship (3)
Ship Resistance (3)
Optimum design of ship & Practice(3)
Ship Propeller Design (3)
Ship Structural Designand Exercise(3)
Fluid Mechanics 1 (3)
Fluid Mechanics 2 (3)
Computer aided drawing of ship & Practice (3)
Numerical Methods for Engineers & Practice (3)
Introduction to Naval Architecture (3)
Naval Architecture equipment design (3)
Project of Ship & Ocean Engineering (3)
Ship and Ocean Engineering Laboratory (3)
Professional English for Naval Architecture and Ocean Engineering (3)
Capstone Design (3)
Computer-Aided Ship Hull-From Design (3)
Design of special ship (3)
Marine Geoinformatics & Practice (3)
Introduction to Ocean Engineering (3)
Coastal and Offshore Structures Design and Training (3)
Marine Meteorology (3)
Ocean Energy Engineering (3)
Dynamical Oceanography (3)
Marine Information Engineering & Practice (3)
Water Wave Mechanics and Field Observations (3)
Offshore Plant Engineering (3)
Oceanography and Field Training (3)
Marine Environmental Engineering (3)
Marine Environmental Informatics & Practice (3)
Theories of Teaching in Mech. & Metal. Eng. Edu. (3)
Text Research & Teaching Methodology in Mech. & Metal. Eng. Edu. (3)
Logic and Essay writing in Mech. & Metal. Eng. (3)

■ Careers

Graduates currently play active roles in central and local government organizations (e.g., Ministry of Land, Transport and Maritime Affairs, Ministry of Foreign Affairs and Trade Ministry of Education, Science

and Technology), public corporations, and research institutes (e.g., Korea Ocean Research and Development Institute, Korea Marine Equipment Research Institute, Korea Institute of Construction Technology). Also, private companies and corporations dealing with ships, offshore and coastal structures, floating islands and harbors are looking to hire naval and ocean engineers. Some graduates go on to graduate school to further specialize in their discipline in the field of naval architecture and ocean engineering.

Department of Maritime Police Science

Contact Information
Tel: +82-61-659-7180
Fax: +82-61-659-7189
E-mail: hosamms@jnu.ac.kr
URL: http://police.jnu.ac.kr

What is Maritime Police Science?

The Department of Maritime Police Science offers highly motivated students basic education of law, social sciences, maritime police science, and maritime safety technology, and professional education comprising of maritime science and technology.

Department of Maritime Police Science

Recently, due to the importance of marine environments, there are increasing concerns about the establishment of maritime sovereignty in the sea area. The Department of Maritime Police Science was founded to address this situation. It provides students with lectures and training necessary for maritime police officers.

Professors

- Dall-Hyun Park, Ph.D. in Law
  [Professor, Criminal Law, Criminal Procedure, Criminal Policy
  dhpark328@jnu.ac.kr]
- Duck-Jong Jang, Ph.D. in Science
  [Professor, Marine Safety, Navigation, Marine Pollution Response,
  jdj@jnu.ac.kr]
- Ho-Sam Bang, Ph.D. in Law
  [Professor, International Law of the Sea, Maritime Law,
  hosamms@jnu.ac.kr]
- Ki-Soo Lee, J.S.D.
  [Professor, Police Science, Maritime Police Science,
  kslee@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, with 30 credits from cultural electives, 15 credits from core courses, 33 credits from electives, and 21 credits from deepening courses. Students must also demonstrate proficiency in a foreign language.

What Do You Study?

Introduction to Police Administration
Maritime Police Science
Police and Human Rights
Theory of Police Investigation
Introduction to Public Administration
Administrative Law

Introduction to Law
Constitutional Law
General Theory of Criminal Law
Criminal Procedure
Criminology
Civil Law
International Law
Law of the Sea and International Maritime Conventions
Marine Laws
Marine Traffic Law
Maritime English
Introduction to Navigation
Geo-Navigation
Radio Navigation and Practice
Celestial Navigation
Nautical Instrument and Practice
Seamanship Control
Seamanship
Ship Handling Simulator Training
GMDSS Communication Training
Embarkation Training
Ship Boarding Training
Leadership And Teamwork
Maritime Safety Training
Marine Accident Management
Ocean Pollution Control
Marine Pollution Response Practice
Principles of Fisheries
Fishery Management in Loading of Ship
Writing for Self-reflection and Communication
Career Plan and Self Understanding
English for Global Communication
Earth Science
Science of Chivalry and Practice
Total Credits: 40

■ Careers

Most graduates are expected to work as maritime police officers. They can also advance to positions in maritime administrative organizations, marine companies, national marine accident inquiry offices, and maritime-related organizations.

Department of Marine Bio Food Science

Contact Information
Tel: +82-61-659-7210
Fax: +82-61-659-7219
E-mail: gnahn@jnu.ac.kr
URL: http://marinefs.jnu.ac.kr

What is Marine Bio Food Science?

Marine Bio-Food Science is the scientific field of marine-derived foods studying the basic principles of marine food sources, food quality, processing and preservation of food materials, distribution, sanitation, food technology, and methods evaluating food safety.

What is the Department of Marine Bio Food Science?

The Marine Bio-Food Science department was established in 1987 and has educated in various techniques and harnessed knowledges about food fields related with marine-derived resources.

Furthermore the department has strived to become a leader in the development or production of functional and high quality food materials that could benefit all humankind.

The students can have many opportunities to train in companies, practice interviews and master scientific techniques. We provide an excellent educational environments with outstanding facilities and scholarships to our students.

Professors

- Dong-Soo Kang, Ph.D.
  [Professor, Fisheries Chemistry, dskang@jnu.ac.kr]
- Sun-Jae Kim, Ph.D.
  [Professor, Food Safety, foodkims@jnu.ac.kr]
- Gin-Nae Ahn, Ph.D.
  [Professor, Marine Biotechnology, gnahn@jnu.ac.kr]
- Sun-Hee Cheong, Ph.D.
  [Professor, Functional Foods, sunny3843@jnu.ac.kr]

Degree Requirements

Major	Liberal Arts	Major Credits			General Electives	Graduation Credits
		Minimum Recognition	Enhancement	Total		
Marine Bio Food Science	30	48	21	69	31	130

Students are required to earn the above credits, as well as demonstrate proficiency with a foreign language.

What Do You Study?

Molecular Biology
Biochemistry
Analytical Chemistry and Lab.
Food Utilization 1 and Experiment
Food Utilization 2 and Experiment
Food Hazard analysis & Practice
Molecular Nutrition
General fisheries
Fisheries Law
Fisheries Quality Management
IntroductiontoFisheriesScience
Food Bioscience
Sea Food Refrigeration
Fisheries Industrial Materials
Bio-food English in Major Field
Food Additives
Instrumental Analysis
Seaweed Food Processing
Food Safety & Practice
Marine food materials and experiments
Food Enzymology
Food Engineering Basic Concepts
Seafood manufacturing practice
Fishery Products Maintenance
Marine Biomaterials & Lab
Utilization of Fisheries By-Products
Marine Bio-Food and Lab.
Marine toxicology
Seafood Design Technology and Experiment
Seminar in bio-food materials
Canned Sea Food Technology
Fisheries Marketing
Animal Cell Culture and Lab.
Physiology
Food Science
Fermentation metabolism
Field Training of Marine Biotechnology
Microbiology & Practice
Organic Chemistry and Lab
Seafood Chemistry and Lab.
Seafood processing and lab.
Functional Examination of Fisheries Product
Quantitative Analysis of Seafood and Lab.
Fermentation Chemistry & Practice
Marine Natural Products Chemistry

Careers

- **Employment**

Graduates in the Marine Bio-Food Science department may expect to employment in biotechnology companies, national/private research centers, and food-related companies including in food production, processing, and distribution.

- **Graduate school**

Our department has the postgraduate courses offering intensive education leading to opportunities to become major experts in the field of Marine Bio-Food Science.

Marine Production Management

Contact Information
Tel: +82 61 659 7120
Fax: +82 61 659 7129
E-mail: jihoon.lee@jnu.ac.kr
URL: http://marine.jnu.ac.kr

■ What is Marine Production Management?

The aim of the Marine Production Management program is to foster high-quality human resources who will lead continuous improvement efforts and efficient management of marine resources. The Department? It provides education related to eco-friendly and efficient marine production systems and shipping service systems for marine transportation and fishery production (Official Education and Training Institution for Marine Officers designated by the Ministry of Oceans and Fisheries). The department also provides students with opportunities to visit other countries through overseas ship boarding practices.

■ School of Marine Technology at Chonnam National University

Marine Technology (MT) is one of seven national agendas with regard to striving to achieve excellence in areas of technology(IT, BT, ET, NT, ST, CT, MT) fixed by the National Science and Technology Council. MT is considered to be the future technology for achieving such goals as increasing competitiveness in the marine industry, intensifying the management of marine territory, and preventing the draining of marine resources and global environmental changes, for which everyone in recent history shares the blame. The aim here is to foster excellent talents who will lead the new marine age of the 21st century by sharing information through international workshops and developing technology through cooperative research.

It provides customized education, on-the-job training opportunities through cooperation with related industries, government agencies, and research institutions. It specializes in the development of marine high-technology, the development and use of ocean resources, and the maintenance of the ocean environment. This school currently consists of 5 majors: Marine Production Management, Aquaculture, Power System Engineering, Environmental Oceanography, and Naval Architecture and Ocean Engineering.

■ Professors

- Doo-Jin Hwang, Ph.D.
  [Professor, Fisheries Acoustics, djhwang@jnu.ac.kr]
- Taeho Kim, Ph.D.
  [Professor, Fisheries Engineering, kimth@jnu.ac.kr]
- Hyong-Ho Shin, Ph.D.
  [Professor, Ship Navigation, hhshin@jnu.ac.kr]
- Jihoon Lee, Ph.D.
  [Professor, Fishing System, jihoon.lee@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years, with 18 credits earned on average per semester.

■ What Do You Study?

Boarding Training1
Boarding Training2
Boarding Training3
Celestial Navigation
Computer Aided Fishing Gear Design & Practice
Deep-sea Fishing
ECDIS Training
Fisheries hydrography
Fisheries Management
Fisheries Resources Dynamics
Fishery Biology
Fishery Management in Loading of Ship
Fishing Gear Design
Fishing Gear Engineering
Fishing Gear Material
Fishing Information
Fishing Methodology
Geo-Navigation
GMDSS Communication Training
Leadership and Teamwork Training
Leisure Fishing Technology and Practice
Marine Laws
Marine Traffic Law
Maritime English
Maritime Safety Training
Meterology Training
Nautical Instrument and Practice
Numerical Analysis & Practice
Ocean Fisheries Law
Ocean Systems Control Theory & Practice
Oceanography and Practice
Principles of Fisheries
Radar Simulation Training
Radio Navigation and Practice
Seamanship
Seamanship Control
Techniques of Fishing Machinery & Lab.
Techniques of Fishing System

■ Careers

Graduates may find careers as public service employees of local autonomous entities or institutions under the control of the Ministry of Oceans and Fisheries, Korea Coast Guard, custom examiners, researchers of the National Fisheries Research and Development Institute or the Korea Institute of Ocean Science and Technology, personnel of the Korea Marine Environment Management Corporation, the Korea Ship Safety Technology Authority, the National Federation of Fisheries Cooperatives, deep-sea fishery companies, companies related to fisheries, marine transportation business (possible substitution of military service), and educational institutions (after completing the teaching training course).

Department of Ocean Integrated Science

Contact Information
Tel: +82-61-659-7140
Fax: +82-61-659-7149
E-mail: shinhc@jnu.ac.kr
URL: http://ocean89.jnu.ac.kr

What is Department of Ocean Integrated Science?

The most striking feature of Earth in the 21st century is the marine environment. Students aim to understand the phenomena of the marine environment, focusing on the global ecosystem, the scientific and technological development for space uses of marine environment, the development of marine energy, the exploration of marine resources, and the management and conservation of the marine ecosystem. More recently, sustainable ecosystem development and management of marine environments has become a crucial branch of study. This program provides the understanding of scientific and technological applications for marine environments. The study of marine phenomena may be divided into four broad caregories as follows: biology, chemistry, physics, and geology, leading to a study of the uses and management of the true marine environment. The program's main purpose is to educate students into experts in developing various and plentiful marine resources. In addition, faculty members and students are involved actively in advance studies and exploration with overseas universities and international partners: Students have opportunities for both research and study abroad

Major in Department of Ocean Integrated Science at Chonnam National University

As a leading partner in marine science and technology research and development, the Department of Environmental Oceanography has a study program providing the understanding of scientific and technological applications for marine environments.

The program is divided into four main broad categories as follows: biology, chemistry, physics, and geology. The main purpose of this program is to educate about and foster a greater understanding of the essential preservation and development of our diverse and plentiful marine resources.

Professors

- Yeon Gyu Lee, Ph.D.
  [Professor, Marine Geology, lyg6342@jnu.ac.kr]
- Hyun Chool Shin, Ph.D.
  [Professor, Marine Benthic Ecology, shinhc@jnu.ac.kr]
- Hyeon Seo Cho, Ph.D.
  [Professor, Chemical Oceanography, hscho@jnu.ac.kr]
- Ihn-Sil Kwak, Ph.D.
  [Professor, Zoology, iskwak@jnu.ac.kr]
- Ho Young Soh, Ph.D
  [Professor, Zooplankton Systematics and Ecology, hysoh@jnu.ac.kr]

• Yoonja Kang, Ph.D. yoonjakang@jnu.ac.kr]
[Assistant Professor, Phytoplankton Ecology,

■ What Do You Study?

Environmental Oceanography & Lab. 1
Environmental oceanography & Lab. 2
Marine Ecoenvironmentalogy & Lab. 1
Marine Ecoenvironmentalogy & Lab. 2
Marine Integrative Science and Lab.
Marine Geotectonics and Lab.
Marine Geology of korea & Lab.
Marine Sedimentology and Lab.
Marine Micropaleontology
Marine Benthic Ecology and Lab.
Intertidal Ecology and Lab.
Biology of Marine Nekton and Lab.
Marine Chemistry and Lab.
Seawater Analysis and Lab.
Marine Pollution and Lab.
Marine Biodiversity & Lab.
Deep sea Biology
Zooplanktonlogy & Lab.
Ocean-ecotoxicology & training
Estuary Ecology
Ocean Animal Behavior & Lab.
Ocean environment Genetics & Lab.(Capstone Design)
Marine Resources and Lab
Phytoplankton Ecophysiology and Lab
Planktonology and Lab.
Oceanographic Data Analysics And Exercises

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 Years, with 18 credits earned on average per semester.

■ Careers

Category	Career Fields
Opening of Business	- Fish Health Center
Government Organizations	- National Fishery Products Quality Management Service(NFQS) and related organizations - Public servants in charge of fishery affairs in the Provincial, Municipal, and County offices - National Institute of Fisheries Science - Korea Ocean & Fisheries Institute - Research institutes under local governments, corporate research centers, etc.
General Corporations	- Pharmaceutical companies - Animal feed manufacturers - Aquarium
Fishery-related Fields	- National Federation of Fisheries Cooperatives - Korea Fisheries Cooperatives - Joint fishery product market - Fishery industry - Fishery product distribution & processing companies - Launch of Fish Disease Control Center - Launch of office in charge of medicines for aquatic organisms

Department of Fisheries, Marine Areas, Industry, Tourism & Leisure

Contact Information
Tel: +82-61-659-7190
Fax: +82-61-659-7199
E-mail: jnukcg@naver.com
URL: http://police.jnu.ac.kr

What is the Department Fisheries, Marine areas , Industry, Tourism & Leisure?

The Department of Fisheries, Marine, Industry, Tourism & Leisure is supported by not only CNU but also Jeonnam Province(50% of scholarship) and companies(25% of scholarship) related to the major, so students who are employed at the companies belong to school can be accepted with only 25% tuition and work and study at the same time.

The educational purpose is to know various theories and application ways such as understanding of marine environment, using, develop, utilizing and preserving fishery marine resources including theories and practical education belong to many types of industry for tourism and leisure fields based on these researches about fisheries and marine areas.

Besides, amalgamated and combined major between fisheries&marine industry and tourism&leisure industry is are researched and educated for students who can contribute to public welfare society, nation and human development.

Training talents for amalgamated industry with fishery&marine and tourism&leisure. Educating for capability and actual business in international and informational generation. Reinforcing abilities for the 4th indusrial revolution though ICT education.

Professors

- Kyeong Ho Han, Ph.D.
  [Professor, Ichthyology Ecology and Taxonomy,
  aqua05@jnu.ac.kr]

Degree Requirements

Students are required to earn 120 credits, normally over a period of 4 years, with 15 credits earned on average per semester.

What Do You Study?

Fisheries & Marine Resources (3)
Oceanography and Field Training (3)
Fisheries & Oceanography and Lab. (3)
Fisheries & Marine Education (3)
Tourism Resources (3)
Marine Tourism Development (3)

Travel Business Management (3)
Leisure Sports Tourism (3)
Maritime Safety Training (3)
Marine Pollution and Lab. (3)
Environmental oceanography & Lab. (3)
Coastal ecology and Lab. (3)
Marine Energy Developments & Practice (3)
Principles of Fisheries (3)
Marine Traffic law (3)
Marine Meteorology and Practice (3)
Fresh-water Biology and Lab. (3)
Marine Ecology and Lab. (3)
Marine & Fisheries business and economics (3)
Conservation Biology (3)
Marine Geoinformatics & Practice (3)
Resources Management (3)
Tourism Law (3)
Hotel and Tourism Services (3)
Business Management & Practice (3)
Culture & Tourism (3)
Tourism Research & Analysis and Practice (3)
Ecotourism (3)
Cruse Management (3)
Tourism Festival Event Planning & Practice (3)
MICE Industry (3)
Leisure and Sport Management (3)
Marina Practice (3)
Exhibition Convention Center Management (3)
Leisure Practice and Start-up (3)
Hotel Management (3)

College of Veterinary Medicine

Contact Information
Phone: +82-62-530-2804, 2805, 2806
Fax: +82-62-530-2809
URL: http://vetmed.jnu.ac.kr/

Veterinary Medicine

Veterinary Medicine

Contact Information
Phone: +82-62-530-2804, 2805, 2806
Fax: +82-62-530-2809
URL: http://vetmed.jnu.ac.kr/

What is Veterinary Medicine?

Veterinary medicine is the branch of science that deals with the application of medical, diagnostic and therapeutic principles pets, and domestic, wild life and livestock animals. Veterinary medicine helps human health through the careful monitoring of livestock, companion animals, and wildlife health. Modern veterinarians serve the needs of the public in a variety of significant ways: prevention of disease in animals and humans, enhancement of animal agriculture and wildlife management, humane health care of animals, research of diseases of animals and provision of wholesome food.

College of Veterinary Medicine

The College of Veterinary Medicine exists to better the health and welfare of animals and humans. Since 1952, the Department of Veterinary Medicine has been serving the public through teaching, research and service programs benefiting animal health, public health, and environmental health in Jeonnam province. It became the College of Veterinary Medicine in 1988 when it separated from the College of Agriculture.

The College of Veterinary Medicine set up an accord in 1995 with Murdoch University, located in Australia, Since then, the College has built similar relationships with Universidad Austral de Chile (Chile), and Nippon Veterinary Medicine and Animal Science (Japan), and has had professor and student exchange programs and common research projects with these institutions.

The college trains the next generation of small and large animal veterinarians as it develops leaders in public health, disease control, food safety, environmental protection, biotechnology, higher education, and research.

The faculty and staff of the college are committed to exceptional teaching, research, and patient care. Many changes will shape the future of veterinary medical education and veterinary medicine in the future.

Professors

- Sung-Ho Kim, Ph.D.
  [Professor, Vet. Anatomy, shokim@chonnam.ac.kr]
- Sung-Shik Shin, Ph.D.
  [Professor, Vet. Parasitology, sungshik@chonnam.ac.kr]
- Chun-Sik Bae, Ph.D.
  [Professor, Vet. Surgery, csbae210@chonnam.ac.kr]
- Bong-Ju Lee, Ph.D.
  [Professor, Vet. Infectious, Diseases, bjlee@chonnam.ac.kr]

- Kyoung-Oh Cho, Ph.D.
  [Professor, Avian Diseases, choko@chonnam.ac.kr]
- Tae-Ho Ahn, Ph.D.
  [Professor, Vet. Biochemistry, thahn@chonnam.ac.kr]
- Jong-Choon Kim, Ph.D.
  [Professor, Vet. Toxicology, toxkim@chonnam.ac.kr]
- Seong-Soo Kang, Ph.D.
  [Professor, Vet. Surgery, vetkang@chonnam.ac.kr]
- Chang-Jong Moon, Ph.D.
  [Professor, Vet. Histology, moonc@chonnam.ac.kr]
- Guk-Hyun Suh, Ph.D.
  [Professor, Vet. Medicine, ghsuh@chonnam.ac.kr]
- Tae-Jung Kim, Ph.D.
  [Professor, Vet. Public Health, tjkim@chonnam.ac.kr]
- Sang-Ik Park, Ph.D.
  [Professor, Vet. Pathology, sipark@chonnam.ac.kr]
- Jong-Hwan Park, Ph.D.
  [Professor, Lab. Animal Medicine, jonpark@chonnam.ac.kr]
- In-Sik Shin, Ph.D.
  [Associate Professor, Vet. Pharmacology, dvmshin@chonnam.ac.kr]
- Ha-Jung Kim, Ph.D.
  [Associate Professor, Vet. Medicine, kimhj614@chonnam.ac.kr]
- Dong-Il Kim, Ph.D.
  [Associate Professor, Vet. Physiology, kimdi@chonnam.ac.kr]
- Chang-Min Lee, Ph.D.
  [Associate Professor, Vet. Laboratory, cmlee1122@jnu.ac.kr]
- Woon-Sung Na, Ph.D.
  [Associate Professor, Vet. Virology, wsungna@jnu.ac.kr]
- Se-Eun Kim, Ph.D.
  [Associate Professor, Vet. Surgery, ksevet@jnu.ac.kr]
- Joong Sun Kim, Ph.D.
  [Associate Professor, Vet. Anatomy, centraline@jnu.ac.kr]
- Park,Seung Jo, Ph.D.
  [Assistant Professor, Vet. Diagnostic imaging, psc1237@jnu.ac.kr]
- Jun-Gyu Park, Ph.D.
  [Assistant Professor, Vet. Surgery, kingsalt@jnu.ac.kr]
- Son Young-Bum
  [Assistant Professor, Vet. Obstetrics, ybson@jnu.ac.kr]
- Yoo Dae Sung, Ph.D.
  [Assistant Professor, Vet. Public Health, shanuar@jnu.ac.kr]

■ Degree Requirements

Students are required to complete the 2-year pre-veterinary medical program in addition to the 4-year veterinary medical program.

They are required to earn 160 credits, with 140 credits from department courses and 20 credits from electives.

■ What Do You Study?

▮ Core Courses (1st)

Veterinary Physiology 1
Veterinary Physiology Lab. 1
Veterinary Biochemistry 1

Veterinary Biochemistry Lab. 1
Veterinary Histology 1
Veterinary Histology Lab. 1
Veterinary Anatomy 1
Veterinary Anatomy Lab. 1
Veterinary Physiology 2
Veterinary Physiology Lab. 2
Veterinary Biochemistry 2
Veterinary Biochemistry Lab. 2
Veterinary Bacteriology
Veterinary Bacteriology Lab.
Veterinary Histology 2
Veterinary Histology Lab. 2
Veterinary Anatomy 2
Veterinary Anatomy Lab. 2

▮ Core Courses (2nd)

Veterinary Parasitology 1
Veterinary Parasitology Lab. 1
Veterinary Toxicology 1
Veterinary Immunology
Veterinary Immunology Lab.
Veterinary Pathology 1
Veterinary Pathology Lab. 1
Veterinary Pharmacology 1
Veterinary Pharmacology Lab. 1
Veterinary Applied Embryology
Environmental Hygiene
Veterinary Parasitology 2
Veterinary Parasitology Lab. 2
Veterinary Toxicology 2
Veterinary Virology
Veterinary Virology Lab. 1
Veterinary Pathology 2
Veterinary Pathology Lab. 2
Veterinary Pharmacology 2
Veterinary Pharmacology Lab. 2
Veterinary Infectious Diseases 1
Food Hygiene
Laboratory Animal Science

▮ Core Courses (3rd)

Swine Diseases
Aquatic Animal Diseases
Veterinary Radiology
Veterinary Radiology Lab.
Veterinary Diagnosis
Veterinary Infectious Diseases 2
Wild Animal Diseases
Epidemiology
Epidemiology Lab.
Avian Diseases
Veterinary Public Health
Veterinary Public Health Lab
Veterinary Medicine 1
Veterinary Medicine Lab. 1
Veterinary Obstetrics 1
Veterinary Obstetrics Lab. 1
Veterinary Surgery 1
Veterinary Surgery Lab. 1
Veterinary Clinical Pathology
Veterinary Clinical Pathology Lab.

▮ Core Courses (4th)

Veterinary Medicine 2
Veterinary Medicine Lab. 2
Veterinary Jurisprudence
Veterinary Obstetrics 2
Veterinary Obstetrics Lab. 2
Veterinary Diagnostic Imaging
Veterinary Diagnostic Imaging Lab.
Veterinary Surgery 2
Veterinary Surgery Lab. 2
Veterinary Dermatology

▮ Electives

Thesis Research
Animal Hospital Management
Animal Hospital Clinical Practice 1
Animal Hospital Clinical Practice 2
Animal Hospital Clinical Practice 3
Equine Medicine
Pathophysiology
Consulting of Industrial Animal

Physiological Biochemistry
Current Topics in Biotechnology
Veterinary Biomedical Engineering
Veterinary Drug Therapeutics
Veterinary Epidemiology
Veterinary Diagnostic Pathology
Wild Animal Management
Fish Morphology
Veterinary Emergency
Pharmacology of Natural Products
Field Learning 1
Field Learning 2

■ Careers

The Department provides students with the skills and knowledge necessary to become successful veterinarians. The Department's faculty conducts innovative and ground breaking clinical, paraclinical, and general research in the field of veterinary science.

Students may also become scientists who work at clinics or labs in other scientific fields.

College of Pharmacy

Contact Information
Phone: +82-62-530-2904~6, 2920
Fax: +82-62-530-2902
E-mail: pharm@jnu.ac.kr
URL: http://pharmacy.jnu.ac.kr

Department

- Department of Pharmacy
  - Pharmacy major
  - Manufacturing Pharmacy major

Affiliated Research Centers

- Research Institute of Pharmaceutical Sciences
- Institute of Bioequivalence and Bridging Study
- Research and Development Center for Natural Product Drugs

College of Pharmacy

Contact Information
Phone: +82-62-530-2920, 2953
Fax: +82-62-530-2949
E-mail: pharm@jnu.ac.kr
URL: http://pharmacy.jnu.ac.kr/

What is Pharmacy?

Pharmacy is the science of development, dispensing, and management of drugs. It is a health profession that links life sciences with chemical, biological and physical sciences. Pharmacy aims to educate and train students to ensure the safe and effective use of pharmaceutical drugs, and development of new therapeutic agents.

College of Pharmacy at Chonnam National University

The mission of the College of Pharmacy, established in 1981, is to educate and train highly-qualified professional pharmacists, scientists, and other officials in the healthcare field who will care for the health and future of our society. During the last decade, the College has made a strong commitment to intensive education and creative research through programs of education at the undergraduate, professional, and postgraduate levels. The College is well-equipped with research facilities, complete multimedia systems, and computer networks for a thoroughly modern educational experience.

Professors

- Yong-Bok Lee, Ph.D.
  [Professor, Pharmaceutics, leeyb@jnu.ac.kr]
- Won-Jea Cho, Ph.D.
  [Professor, Organic Pharmaceutical Chemistry, wjcho@jnu.ac.kr]
- Kyeong-Man Kim, Ph.D.
  [Professor, Pharmacology, kmkim@jnu.ac.kr]
- Kwonseop Kim, Ph.D.
  [Professor, Pathophysiology, koskim@jnu.ac.kr]
- Kwang Youl Lee, Ph.D.
  [Professor, Molecular Biology, kwanglee@jnu.ac.kr]
- Bok Yun Kang, Ph.D.
  [Professor, Immunology, bykang@jnu.ac.kr]
- Young Ran Kim, Ph.D.
  [Professor. Pharmacotherapy. kimyr@jnu.ac.kr]
- Young Jun Im, Ph.D.
  [Professor, Structural Biochemistry, imyoungjun@jnu.ac.kr]
- ChangJu Chun, Ph.D.
  [Professor, Bionano- Pharmaceuticals, cchun1130@jnu.ac.kr]
- Joo Young Huh, Ph.D.
  [Associate Professor. Applied Pharmacology. jooyhuh@jnu.ac.kr]
- Jutaek Nam, Ph.D.
  [Associate Professor. Basic Pharmaceutical Chemistry. namj@jnu.ac.kr]
- Young-Chang Cho Ph.D.
  [Associate Professor, Preventive Pharmacy, yccho@jnu.ac.kr]

- Namki Cho, Ph.D.
  [Associate Professor, Pharmacognosy, cnamki@jnu.ac.kr]
- Gyudong Kim, Ph.D.
  [Associate Professor, Medicinal Chemistry, gdkim0217@jnu.ac.kr]
- Kyuho Moon, Ph.D.
  [Assistant Professor, Pharmaceutical Analysis, khmon@jnu.ac.kr]
- Jeong Uk Choi, Ph.D.
  [Assistant Professor, Physical Pharmacy, cju0667@jnu.ac.kr]
- Somy Yoon, Ph.D.
  [Assistant Professor, Basic Pharmaceutical Biology, somyyoon@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 225 credits to graduate.

Basic Pharmacy Courses

Basic Pharmaceutical Biology 1
Basic Pharmaceutical Biology 2
Basic Pharmaceutical Chemistry 1
Basic Pharmaceutical Chemistry 2
Introduction to Pharmacy
Instrumental Analysis
Basic pharmacy physics 1
Basic pharmacy physics 2
Basic Pharmaceutical Experiment
Microbiology 1
Microbiology 2
Cell biology
Pharmaceutical Biochemistry 1
Pharmaceutical Biochemistry 2
Pharmacy Ethics
Pharmaceutical statistics
Pharmaceutical Chemistry 1
Pharmaceutical Chemistry 2
Pharmaceutical Natural Products Chemistry
Anatophysiology 1
Anatophysiology 2

Pharmacy Major

Inorganic/Radiopharmaceutical Medicinal Chemistry
Physical Pharmacy 1
Physical Pharmacy 2
Physiopathology 1
Physiopathology 2
Healthcare Bigdata Analysis
Molecular Biology
Pharmacognosy 1
Pharmacognosy 2
Pharmacokinetics
Pharmaceutical analysis
Pharmacy Experiment 1
Pharmacy Experiment 2
Pharmacy Experiment 3
Pharmacy Experiment 4
Pharmaceutical Chemistry 3
Pharmaceutical Synthetic Chemistry 1
Systematic Literature Review
Target Structure Analysis and Drug Design
Herbal preparations
Cosmeticology
Chemotherapeutic Agents
Functional Food
Toxicology
Digital therapeutics
Immunology
Current anti-cancer immunotherapy
Drug Discovery and Development
Pharmacogenomics
Drug Delivery System
Pharmacology 1
Pharmacology 2
Pharmacology 3
Pharmaceutics 1
Pharmaceutics 2
Drug Design
Preventive Pharmacy & Public Health 1
Preventive Pharmacy & Public Health 2
Introductory Pharmacy Practice Experience

Microbial natural products experiments
Drug synthesis 2
Medicinal Chemistry 1
Medicinal Chemistry 2
Clinical Biochemistry
Pharmaceutical Industry
Pharmaceutical Design
Veterinary Pharmacology
Immunopharmacology
Social Pharmacy
Drug Delivery Technology for Biopharmaceuticals
Biopharmaceuticals
New Drugs
Objective Structural Clinical Examination 1
Objective Structural Clinical Examination 2
Pharmacoeconomics
Drug Interaction
Pharmacotherapy 1
Pharmacotherapy 2
Pharmacotherapy 3
Pharmacotherapy 4
Pharmacopoeia and Pharmaceutical Evaluation
Applied Pharmacology
Pharmaceutical Process Validation
Pharmacy Administration
Pharmaceutical Design
Prescription Pharmacy
Degenerative diseases
Personalized Drug Therapy
Industrial Pharmacy
Pharmaceutical Jurisprudence
Pharmacy Practice Experience 1
Pharmacy Practice Experience 2
Pharmacy Practice Experience 3
Pharmacy Practice Experience 4
Drugs of Abuse and Addiction
Advanced Pharmacy Practice Experience 1
Advanced Pharmacy Practice Experience 2
Advanced Pharmacy Practice Experience 3
Pharmacy Research
Clinical Pharmacokinetics
Natural Medicines

Manufacturing Pharmacy Major

Inorganic/Radiopharmaceutical Medicinal Chemistry
Physical Pharmacy 1
Physical Pharmacy 2
Physiopathology 1
Physiopathology 2
Healthcare Bigdata Analysis
Molecular Biology
Pharmacognosy 1
Pharmacognosy 2
Pharmacokinetics
Pharmaceutical analysis
Manufacturing Pharmacy Experiment 1
Manufacturing Pharmacy Experiment 2
Manufacturing Pharmacy Experiment 3
Manufacturing Pharmacy Experiment 4
Pharmaceutical Chemistry 3
Pharmaceutical Synthetic Chemistry 1
Systematic Literature Review
Target Structure Analysis and Drug Design
Herbal preparations
Cosmeticology
Chemotherapeutic Agents
Functional Food
Toxicology
Digital therapeutics
Immunology
Current anti-cancer immunotherapy
Drug Discovery and Development
Pharmacogenomics
Drug Delivery System
Pharmacology 1
Pharmacology 2
Pharmacology 3
Pharmaceutics 1
Pharmaceutics 2
Drug Design
Preventive Pharmacy & Public Health 1
Preventive Pharmacy & Public Health 2
Introductory Pharmacy Practice Experience
Microbial natural products experiments
Drug synthesis 2
Medicinal Chemistry 1
Medicinal Chemistry 2
Clinical Biochemistry

Pharmaceutical Industry
Pharmaceutical Design
Veterinary Pharmacology
Immunopharmacology
Social Pharmacy
Drug Delivery Technology for Biopharmaceuticals
Biopharmaceuticals
New Drugs
Objective Structural Clinical Examination 1
Objective Structural Clinical Examination 2
Pharmacoeconomics
Drug Interaction
Pharmacotherapy 1
Pharmacotherapy 2
Pharmacotherapy 3
Pharmacotherapy 4
Pharmacopoeia and Pharmaceutical Evaluation
Applied Pharmacology
Pharmaceutical Process Validation
Pharmacy Administration
Pharmaceutical Design
Prescription Pharmacy
Degenerative diseases
Personalized Drug Therapy
Industrial Pharmacy
Pharmaceutical Jurisprudence
Pharmacy Practice Experience 1
Pharmacy Practice Experience 2
Pharmacy Practice Experience 3
Pharmacy Practice Experience 4
Drugs of Abuse and Addiction
Advanced Pharmacy Practice Experience 1
Advanced Pharmacy Practice Experience 2
Advanced Pharmacy Practice Experience 3
Manufacturing Pharmacy Research
Clinical Pharmacokinetics
Natural Medicines

Careers

Pharmacy graduates play a pivotal role in the development of new drugs and scientific technologies in leading research institutes, government agencies, and pharmaceutical industries both in Korea and around the world.

College of Arts

Contact Information

Phone: +82-62-530-3000~3008
Fax: +82-62-530-3002
URL: http://arts.jnu.ac.kr

Departments

- Department of Korean Music
  - Vocal Music Major
  - Instrumental Music Major
  - Theory & Composition Major
- Department of Design
- Department of Fine Arts
  - Korean Painting
  - Drawing & Painting
  - Carving & Modeling
  - Visual Communication Design
  - Craft Fine Arts
  - Theory of Art
- Department of Music
  - Voice/Vocals
  - Piano
  - String, Wood, Brass, Percussion
  - Composition
- Interdisciplinary Program of Arts & Design Technology
  - Major in Digital Arts
  - Major in Human Interaction Design

Affiliated Research Centers

- Arts Institute of Chonnam National University
- The Convergence Research Institute of Service Design
- Research Center for the Culture of Sori in Chonnam National University

Korean Music

Contact Information
Phone: +82-62-530-3050
Fax: +82-62-530-3059
E-mail: jnugugak@naver.com
URL: http://koreanmusic.jnu.ac.kr

■ What is Korean Music?

There are two basic types of Korean music: classical music and folk music. Classical music was enjoyed by the upper class from the court to the aristocrats. It is righteous, refined and elegant, with little obvious emotion. Folk music is lively, artistic and full of emotion and enthusiasm. The most prominent characteristic of Korean music is rhythm. Rhythmic cycles, called *jangdan*, which are constantly repeating patterns with an internal code of stresses and accents, underpin virtually all music. The performance techniques with full ornamentation, called *sigimsae*, particularly before or after the main pitch of a tone sound, are also very important in Korean music.

■ Department of Korean Music

The educational goal of CNU's Department of Korean Music is to preserve, cultivate, and develop Korea's traditions. Many efforts have been conducted to pursue this task, and the Department of Korean music does so by offering lectures to students with performance, practice, theory, and composition of Korean music. Accordingly, Western and Asian music is comprehensively studied.

Students are able to enlarge or develop their view of music. There are three major parts: instrumental music (Gayageum, Geomun-go, Daegeum, Piri, Haegeum, Ajaeng, and percussion), vocal music (Pansori, Gayageum Byeongchcng, Jeongga), composition and theory.

Additionally, there is another optional practice for students develop minor fields in order to broaden their musical competence. The major class instructions are done in face-to-face lessons. There are several performances in a year, including freshmen's performance, annual performance, and performances for each major instrument, to enhance the students' performance ability.

In 1992, the Department launched a pedagogy course which trains students to become school teachers; 10% of students can take teacher preparation courses and acquire the music teachers' certification of secondary schools in their major areas. The Department also offers a master's degree program and a doctoral degree program, established in 1989 and 2008 respectively, to educate more mature performers and scholars.

■ Professors

- In-Sam Jeon
  [Professor, Pansori, insam3052@jnu.ac.kr]
- Yong-Shik Lee
  [Professor, Theory, yongshiklee@jnu.ac.kr]
- Hee-Bong An
  [Professor, Haegeum, haeguman@jnu.ac.kr]
- Hye-jin Yoon
  [Professor, Composition, humanias@jnu.ac.kr]
- Sang-yeon Kim
  [Associate Professor, Daegeum, sy5979@jnu.ac.kr]
- Jae-young Kwak
  [Assistant Professor, Gayageum, kjy3050@jnu.ac.kr]
- Seung-heon Lee
  [Assistant Professor, Piri, leehong97hgd3050@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 32 credits from core courses, 78 credits from Department courses, and 20 credits from electives.

■ What Do You Study?

Vocal Music Major Courses

▮ Core Courses

Major of Korean Vocal Music 1-8
Instruction to Korea Operas 1-8
Chorus in Korean Traditional Music 1-8
Appreciation and Critics of Korean Music 1-8
Vocal and Instrumental Music 1-2 (Folk song)
Vocal and Instrumental Music 3-4 (DanSo)
Instruction to Western Music
Western Music History
Introduction to Korean Traditional Music 1-2
Korean Music History 1-2
Transcription of Korean Traditional Music 1-2
Sight & Ear Training 1-2
Janggu Accompanying 1-2

Instrumental Music Major Courses

▮ Core Courses

Major of Korean Tradition Instrumental Music 1-8
Korean Music Orchestra 1-8
Korean Chamber Music 1 (Chong-Ak)
Korean Chamber Music 2 (Ka-Gok)
Korean Chamber Music 3 (Min-Yo Ensemble)
Korean Chamber Music 4 (San-Jo Ensemble)
Korean Chamber Music 5-6 (Sinawi)
Korean Chamber Music 7-8 (Creation)
Appreciation and Critics of Korean Music 1-8
Vocal and Instrumental Music(Folk song) 1-2
Vocal and Instrumental Music(DanSo) 3-4
Instruction to Western Music
Western Music History
Introduction to Korean Traditional Music 1-2
Korean Music History 1-2
Transcription of Korean Traditional Music 1-2
Sight & Ear Training 1-2
Janggu Accompanying 1-2

Theory and Composition Major Courses

▮ Core Courses

Major of Composition & Theory of Korean Music 1-8
Seminar of Korean Music 1-8
Appreciation and Critics of Korean Music 1-8
Vocal and Instrumental Music 1-2 (Folk song)
Vocal and Instrumental Music 3-4 (DanSo)
Instruction to Western Music
Western Music History
Minor instrument 1-4
Studies in the Music Literature 1-4
Introduction to Korean Traditional Music 1-2

Korean Music History 1-2
Transcription of Korean Traditional Music 1-2
Sight & Ear Training 1-2
Janggu Accompanying 1-2

▮ Electives

Folk Music Culture 1-2
Introduction to Court Music 1-2
Pedagogy of Korean Traditional Music
Minor Practice 1-4
Piano Accompanying 1-4
Harmony and Counterpoint 1-2
Developing Teaching&Learning Programs on Korean Traditional Music
Development and Use of Teaching Materials & Tools on Korean Traditional Music
Korean Music and Computer
Analysis on Korean Traditional Music 1-2
Introduction to Korean Opera Pansori
Production, and Promotion of Music
Introduction to Sanjo
Introduction to Asian Music
Reading Music 1-2
Field Research in Music Industry
Music Aesthetics and Philosophy
Conducting
Teaching Material and Pedagogy of Music
Teaching Logic and Essay Writing in Music Education
Pedagogy of Music Education
Introduction to Musicology

■ Careers

Graduates from the Department of Korean music work in diverse fields such as performers in music orchestra and ensemble, educators, scholars, experts in music business and industries, and broadcasting.

Design

Contact Information
Tel: +82-62-530-3070, 3072
Fax: +82-62-530-3079
E-mail: jnudesign@naver.com
URL: http://design.jnu.ac.kr

What is Design?

Humans can express and communicate their experiences in the form of objects with visual language. In particular, visual communication by images (pictures) is more common than by language or numbers. The process of recreating visual language is the beginning of design and enables us to communicate information about things necessary for our daily survival. The teleology and the lyrical expression of our designs enrich our own existence and quality of life. The design of our lives depends on the technological prowess of the era and the shape of the times, and its role and meaning continues to evolve.

Department of Design at Chonnam National University

The Department of Design is a newly introduced major, formally classified in 2016 through an amalgamation of the Chonnam National University College of Art, The department of Fine Art, and the Department of Visual communication Design.

The department of design is structured with academic courses in theory and practical skills that will manifest students' abilities of planning, analyzing, and evaluating to cultivate competitive designers.

Tracks of subjects are classified into visual design, media art design, fusion service design and through each individual intensive class, we and planning to send out design specialists that the current generation requires by fostering global designers that will meet the demands of future society.

Professors

- Kim, EelKwon
  [Professor, Media Art
  eelkwon@gmail.com]
- Yun, JaeSung
  [Professor, Visual Communication Design,
  asvi84@naver.com]
- Nam, HoJung
  [Professor, Visual Communication Design,
  hojungn@jnu.ac.kr]
- Suh, YoungSang
  [Professor, Photo and Media,
  ysang@jnu,ac.kr]
- Choi, Souk
  [Professor, Visual Communication Design,
  choiss@jnu.ac.kr]
- Jung, JungHo
  [Associate Professor,
  Marketing Communication Design,
  vava@jnu.ac.kr]

■ Degree Requirements

Students in the Department of Design are required to earn 140 credits, with 30 credits from core courses, 48 credits from electives, 32 credits from general courses, and 30 credits from liberal arts courses.

All students are required to pass English for Global Communication(EGC), participate in a graduate exhibition, and submit a thesis.

■ What Do You Study?

Department of Design Courses

2,3 Dimensional Modelling
Digital Art Graphic
UI/UX Design
Visual Contents Design
Commercial Photography
Marketing Communication Design
Package Design
Brand Design
Design Portfolio

▮ Electives

Design Concept
Basic Graphic Design
Design Color
An introduction to Design Study
Idea and Expression
Digital Graphic Design
Theory of Design
Photography Editing Design
Design Research1
Illustration 1,2
Animated Image Design
Typography
Editorial Design
Motion Graphic Design
Photo graphic Design 1,2
Design Trend
Advertising Design
Video Media Design
Public Design
Web Application Design
Virtual Contents Design
Photography Editing Design
Service Design
Interaction Design
3D Design
Visual Information Design 1,2
Digital Art Design Workshop 1,2
Brand Identity Design 1,2
Image Design 1,2
Package Design Seminar 1,2
Service Marketing Design 1,2

■ Careers

Students may obtain positions in/as: Contents Design / Editorial Design / Publication Design / Graphic Design / Digital Design / Media Design / Service Convergence Design / Art Teachers in Middle and High Schools.

Fine Arts

Contact Information
Tel: +82-62-530-3020, 2540
Fax: +82-62-530-2549
E-mail: altnfgkrrhk@hanmail.net
URL: http://fineart.jnu.ac.kr

■ What is Fine Art?

All art is an abstraction and many fine arts inevitably register figurative associations in the spectator's eye and mind. Fine art is a visual experience, achieving a greater "reality" than the contemporary environment, particularly in its new spiritual, philosophical, or scientific experiences.

What do we mean by Fine Arts? Do we mean the arts of a certain period in time? Are these arts expressing a certain style? Are they the works of certain key individuals? Do we intend to study all the works of a particular period? Perhaps the arts revealing a certain philosophy? Or on the other hand, should we study the arts of a certain period emphasizing certain materials? All of these questions are incorporated into Fine Arts.

■ Department of Fine Arts at jeonnam National University

Department of Jeonnam Arts School, as a leading organization of the National Universities in Jeonnam province, has cultivated numerous talented people over 30 years. We strive to foster domestic and international students in Gwangju aiming at the culture center in Asia with practical and creative education.
Since 1982, we have provided numerous business ventures such as academic seminars, special lectures of famous artists, publication of academic journals, etc. In addition, we had made an agreement with Yanbian University and have had exchange programs and joint exhibition of works in Gwangju as well as Yanbian. Our department is made up of six parts: Korean Painting, Western Painting, Sculpture, Visual Design, Crafts and Theory. Each department recruits students in their own ways and offers the methodical practice education and theory with the subdivided curriculum to them. Graduates can work in many areas as an artists, sculptors, designers, craftspeople and curators in an administrative agency. Especially, our students who hold high ranks for three semesters can have a qualification for being a middle school teacher after completing a course in teacher education. Our department was established in 1982. The number of our graduates who received Bachelor's degree is presently about 2,433, 208 for Master's and 20 for Ph.Ds. All of them have improved our status while working in various fields internationally and domestically. Moreover, our graduates distinguish themselves in culture and arts fields as a curator, designer in exhibition and museum. The volume of recruitment is 11 in each department in order to improve education and environment quality. Also, we have consistently selected excellent personnel since 2010

■ Professors

- Jin Hur
  [Professor, Korean Painting, hurjin5@naver.com]
- Kum-Hee Jung
  [Professor, Western Art History, khjhjung@hanmail.net]
- Chul-Woo Kim
  [Professor, Fine Crafts(Ceramic Art), dogong63@hanmail.net]
- Ku-Yong Lee
  [Professor, Korean Painting, seed290@jnu.ac.kr]
- Kee-Moon Seo
  [Professor, Drawing & Painting, jinzza01@hanmail.net]
- Jei-Min Kim
  [Assistant Professor, Drawing & Painting, jeimin@gmail.com]
- Hyun-ju Kim
  [Assistant Professor, Fine Crafts(Metal Art), blueart00@jnu.ac.kr]
- Jeong-Yong Park
  [Assistant Professor, Sculpture, fromthehand@ hanmail.net]
- Ha-Young Joo
  [Assistant Professor, Western Art juja2@ hanmail.net]
- Hyoung-O Park
  [Assistant Professor, Sculpture, ocho1@ hanmail.net]

■ Degree Requirements

Students in the majors of Korean Painting, Oil Painting, Sculpture, Visual Communication Design, Craft and Art Theory are required to earn 140 credits, with 36 credits from core courses, 42 credits from electives, 32 credits from general courses, and 30 credits from liberal arts courses.

All students are required to pass English for Global Communication (EGC) and participate in a graduate exhibition and submit a thesis.

■ What Do You Study?

Major in Korean Painting Courses

Basic Korean Ink Painting 1, 2
Basic Korean Painting 1, 2
Korean Ink Painting 1, 2, 3, 4
Korean Painting 1, 2, 3, 4

▮ Electives

Basic Drawing 1, 2
Calligraphy and Seal Carving 1, 2
Painting of The Four Gracious Plants 1, 2
Computer graphic1, 2
Pedagogy on Arts through Creative Approach
Planning · Producing & Demonstrating
Korean Painting Media & Techniques 1, 2
Figure Drawing 1, 2
Three Dimensional Presentation
Exercise of Photography
Creative Drawing 1, 2
Two Dimensional Presentation
Chromatics
Theory of Asian Arts
Portrait 1, 2
Portfolio & Presentation
Creative Korean Painting 1, 2
Techniques of Korean Painting 1, 2
Conservation 1, 2
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills

Major in Drawing & Painting Courses

Basic Studio Arts 1, 2
Fundamentals of Painting 3, 4
Studio Arts 1,2
Advanced Course in Studio Arts 3, 4
Creative Painting 1, 2, 3, 4

▮ Electives

Instructional Theory of Art
Research On Teaching Materials And Methods Of Arts
A Course on Fine Arts Logic and Essay writing
Figurative Drawing 1, 2
Materials 1, 2
Computer graphic1, 2
Water Color Painting 1, 2
Pedagogy on Arts through Creative Approach
Planning · Producing & Demonstrating
Figure Drawing 1, 2
Three Dimensional Presentation
Exercise of Photography
Creative Drawing 1, 2
Two Dimensional Presentation
Chromatics
Seminar on Arts 1, 2
Portrait 1, 2
Print Making 1, 2
Portfolio & Presentation
Techniques of Portrait 1, 2
Technics of Drawing & Painting 1, 2
Conservation 1, 2
Techniques Of Painting Representation 1, 2
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills
Understanding Integrated Arts Educational Programs

Major in Carving & Modeling Courses

Human Body Molding 1, 2, 3, 4
Study of Terra-cotta Technique
Study of Metal Sculpture Technique
Study of stone sculpture technique
Study of Wooden Sculpture Technique
Practical Molding Tutorial 1, 2
Study of Creative Design 1, 2

▮ Electives

Computer graphic1, 2
Academic plan counselling
Basic Molding 1, 2
Basic Plane Design
Basic Three-dimensional Design
Korean Design and Culture
Pedagogy on Arts through Creative Approach
Planning · Producing & Demonstrating
Figure Drawing 1, 2
Three Dimensional Presentation
Exercise of Photography
Creative Drawing 1, 2
Two Dimensional Presentation
Study of Relieved Sculpture Technique
Three-dimensional Drawing 1, 2
Practical Art Anatomy
Seminar on Art in Field
Basic Introduction of Science of Arts
Chromatics
Portrait 1, 2
Portfolio & Presentation
Study about practical art(ornamental sculptures and ceramic sculptures))
Contemporary Art Criticism
Computer and Plane Design
Computer and three-dimensional Design
Public art project
Environment Sculpture
Art and Marketing
Study of Complex Media
Interactive Art
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills
Understanding Integrated Arts Educational Programs

Major in Visual Communication Design Courses

Advertising Design 1, 2, 3
Package Design 1, 2
Identity Design
Visual Environmental Design 1, 2
Visual Information Design 1, 2
Brand Package Design 1, 2

▮ Electives

Basic Design Studio-3D
Detailed Representation 1, 2
2D Design Studio
Typography
Color moulding
Basic Design Studio-3D
Design Research
computer graphic1, 2
Teaching&Learning Approach to Design(Infant,Elementary,Middle&High School,Adult)
Pedagogy on Design through Creative Approach
Planning · Producing & Demonstrating
Figure Drawing 1, 2
Three Dimensional Presentation
Illustration 1, 2
Media Design 1, 2
Commercial Photo
Photography
Exercise of Photography
Creative Drawing 1, 2
Design project
Two Dimensional Presentation
Chromatics
Theory of Design
Portrait 1, 2
Digital Design 1, 2
Portfolio & Presentation
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills
Understanding Integrated Arts Educational Programs

Major in Craft Fine Arts Courses

Ceramic Art : Basic 1, 2
Wood Lacquer Art : Basic 1, 2
Ceramic Art : Advanced Skill 1, 2, 3, 4
Wood Lacquer Art : Advanced Skill 1, 2, 3, 4

▮ Electives

Basic Drawing 1, 2
Detailed Representation 1, 2
Basic Wheel Throwing 1, 2
computer graphic1, 2
Teaching&Learning Approach to Crafts(Infant,Elementary,Middle&High School,Adult)
Pedagogy on Arts through Creative Approach
Pedagogy on Crafts through Creative Approach
Developing Teaching & Learning Programs on Crafts
Planning · Producing & Demonstrating
Figure Drawing 1, 2
Three Dimensional Presentation
Exercise of Photography
Mechanical Drawing 1, 2
Textile Art : Basic 1, 2
Metallic Art : Basic 1, 2
Creative Drawing 1, 2
Two Dimensional Presentation
Chromatics
Theories of Crafts
Portrait 1, 2
Portfolio & Presentation
Metallic Art : Advanced Skill 1, 2, 3, 4
Textile Art : Advanced Skill 1, 2, 3, 4
Interior Design 1, 2
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills
Understanding Integrated Arts Educational Programs

Major in Theory of Art Courses

History of Art 1, 2
History of Aesthetics
History of Korean Painting in Chs?n Dynasty
History of Korean Art
The Way to Modern Arts
Art Management Theory
The Methodologies of Art
Criticism of Modern art
Modern and Contemporary Korean art theory
Reading in English
Theory of Art Exhibition

Electives

Art and Culture
computer graphic1, 2
Visual Media Comprehension
Topics in Comparative Research of the Arts in East and West
Art and Sociology
Pedagogy on Arts through Creative Approach
Planning · Producing & Demonstrating
Figure Drawing 1, 2
Three Dimensional Presentation
Exercise of Photography
Creative Drawing 1, 2
Two Dimensional Presentation
Theory of art and marketing
Contemporary Design Theory
Chromatics
History of Oriental Art
Museology
History of Chltural Assets
Art philosophy
Theory of Installation Art
Animation Art
Portrait 1, 2
Portfolio & Presentation
Contemporary Aesthetics
Appreciation Of Art
Art Psychology
Contemporary Art Discourse
Theory of Art Therapy
A Study of the Artist
Understanding Cultural Policy and Arts & Cultural Education
Communication Skills
Understanding Integrated Arts Educational Programs

Careers

Students may obtain positions in/as:

- Art Administrators
- Curators in Fine Art Museums
- Restoration and Judgment of Cultural Assets
- Private Art Institutes
- Professional Designers in Companies and as Freelancers
- Art Teachers in Middle and High Schools

Mental Treatment in Art Students may obtain positions in:

- Broadcasting and Newspaper Company Related Art Departments
- Art Gallery Management, Display and Planning
- Developing Art Products
- Manufacturing Environmental Monument
- Producing Video Image Methods and Advertising Media

Music

Contact Information
Tel: +82-62-530-3030, 0390
Fax: +82-62-530-3049
E-mail: cnumusic@daum.net
URL: music.jnu.ac.kr

What is Music?

Music may be defined as the art of creating or performing the pattern of notes.

Department of Music at Chonnam National University

The department of music has educated talents as one of the most leading and comprehensive institutions in the Honam province. With acclaimed faculty members, the department inspires prospective leaders of every musical fields by providing systematic coursework. The department also helps voice, piano, composition, string, and wind major students broaden their musical insight by offering numerous performance opportunities including regular concerts, masterclasses, and guest recitals each year. The Department also comprises of Yehyang Hall, Jieum Hall, 40 individual sound-proof practice rooms, music library, music listening room, computer room, chorus room, and lockers for instruments. There are a wide range of careers available to graduates including further studies at local or national graduate schools, teaching jobs at colleges, teaching jobs at middle and high schools, professorships at national universities and private colleges, instructor positions at private schools, professional performer positions, professional music department jobs at broadcasting companies, or professional composer positions.

Professors

- Hyun-Ok Moon, D.M.A.
  [Professor, Piano,
  hyun0404@jnu.ac.kr]
- Sukyung Shin, D.M.
  [Professor, Piano,
  sushin@jnu.ac.kr]
- Hyun-Sue Chung, Ph.D.
  [Professor, Composition,
  music@jnu.ac.kr]
- Kyung-Jin Han, Ph.D.
  [Professor, Composition,
  hankj7@jnu.ac.kr]
- Byung-Kil Yoon, Diplom
  [Associate Professor, Voice
  corelliyoon@jnu.ac.kr]
- Eun-Shik Park, D.M.A.
  [Associate Professor, Piano
  meunspark@jnu.ac.kr]
- Hyejung Lee, Diplom
  [Associate Professor, Violin
  hjlee0608@jnu.ac.kr]
- Byung-Woo Kong, Perfectionnement
  [Associate Professor, Voice
  veritaspaul@jnu.ac.kr]
- In-Woock Park, M.A.
  [Associate Professor, Conducting
  parkinwoock@jnu.ac.kr]
- Yun-Joo Na, D.M.A.
  [Associate Professor, Cello
  nayunjoocello@jnu.ac.kr

• Hye-Sung Na, Konzertexamen [Assistant Professor, Voice comet@jnu.ac.kr

■ Degree Requirements

Music Major Students are required to earn 130 credits, with 50 credits from core courses, 20 credits from electives, 32 credits from general courses, and 30 credits from liberal arts courses.

All students are required to pass English for Global Communication 1 and to complete a degree recital.

■ What Do You Study?

Voice Major Courses

▮ Core Courses

Voice Major 1-8
Chorus 1-8
Music Theory - Sight Singing & Ear Training 1-2
Harmony 1-2
Deutch Diction 1-2
Italian Diction 1-2
Computer for Real Life
Music History 1-4
Writing for Self-reflection and communication
Career Plan and Self Understanding
Performance 1-2

▮ Electives

Theory & Practice of Computer Music 1-2
Opera Workshop 1-2
Korean Art Songs
Introducing Musicology 1-2
Music Form
Keyboard Harmony 1-2
Counterpoint 1-2
Deutch Art Songs
Italian Art Songs
French Art Songs
English and American Art Songs
Vocal Literature 1-2
Multimedia Music
Vocal Ensemble 1-2
Instruments 1-2
Arts Management
Music Education Theory
Music Software 1-2
Class Piano 1-2
Music Analysis 1-2
Jazz
Piano Pedagogy 1-2
Conducting 1-2

Piano Major Courses

▮ Core Courses

Keyboard Harmony 1-2
Instrumental Accompanying
Vocal Accompanying
Computer for Real Life
Writing for Self-reflection and communication
Career Plan and Self Understanding
Music History 1-4
Performance 1-2
Music Theory - Sight Singing & Ear Training 1-2
Piano Major 1-8
Piano Literature (Baroque Period) 1
Piano Literature (Classic Period) 2
Piano Literature (Romantic Period) 3
Piano Literature (Contemporary Period) 4
Harmony 1-2

▮ Electives

Chorus 1-8
Piano Ensemble 1-2
Piano Chamber Music 1-2

Piano Pedagogy 1-2
Arrangement 1-2
Class Piano 1-2
Theory & Practice of Computer Music 1-2
Conducting 1-2
Jazz
Music Form
Introduction to Musicology 1-2
Music Therapy 1-2
Music Software 1-2
Music Analysis 1-2
Art Management
Music Education Theory
Instruments 1-2
Counterpoint 1-2
Multimedia Music

String, Wood, Brass, Percussion Major Courses

▮ Core Courses

Instrument Major 1-8
Orchestra 1-8
Music Theory - Sight Singing & Ear Training 1-2
Harmony 1-2
Music History 1-4
Performance 1-2
Writing for Self-reflection and communication
Computer for Real Life

▮ Electives

Wind Ensemble 1-8
String Ensemble 1-8
Chamber Music 1-6
Counterpoint 1-2
Multimedia Music
Instruments 1-2
Vocabulary of Musical Terms
Keyboard Harmony 1-2
Music Software 1-2
Music Analysis 1-2
Introduction to Musicology 1-2
Composition 1-2
Class Piano 1-2
Music Form
Orchestra Literature 1-2
Jazz
Theory & Practice of Computer Music 1-2
Arrangement 1-2
Arts Management
Conducting 1-2
Study on Piano Tuning & Technology 1-2
Excerpt Class 1-6

Composition Major Courses

▮ Core Courses

Computer for Real Life
Writing for Self-reflection and communication
Career Plan and Self Understanding
Orchestration 1-2
Counterpoint 1-2
Music History 1-4
Performance 1-2
Music Theory - Sight Singing & Ear Training 1-2
Composition 1-2
Composition Major 1-8
Modern Composition Technique & Analysis 1-2
Harmony 1-2

▮ Electives

Class Piano 1-2
Theory & Practice of Computer Music 1-2
Arrangement 1-2
Piano Pedagogy 1-2
Keyboard Harmony 1-2
Multimedia Music
Chorus 1-8
Instruments 1-2
Music Software 1-2
Art Management
Music Education Theory
Music Analysis 1-2
Music Therapy 1-2
Introduction to Musicology 1-2
Conducting 1-2
Music Form
Jazz

Careers

- Professional performer
- Teacher at middle and high schools
- Professorships at colleges
- Professional composer
- Director at broadcasting and publishing services

Interdisciplinary Program of Arts & Design Technology

Contact Information
Tel: +82-62-530-3090
Fax: +82-62-530-3089
E-mail: adt-own@naver.com
URL: http://art-design-tech.com/

■ What is Arts & Design Technology?

Art & design technology refers to the integration of art, design, and engineering technology. It aims to create new art and culture through the convergence of disciplines, and to create shared values for solving social problems by identifying the needs of the rapidly changing contemporary society.

■ Interdisciplinary Program of Arts & Design Technology at Chonnam National University

The Interdisciplinary Program of Arts & Design Technology is based on culture and art and combines intelligent technologies (AR/VR, big data, AI, 3D printing, etc.) to focus on various field practices such as new media art, interaction design, art marketing, and digital media management. It educates and researches content planning and production, nurturing design convergence talents to solve industrial and social problems.

Newly established in June 2020, this cooperative course consisting of digital arts and human interaction design majors combines humanities and social sciences technology to preemptively respond to rapidly changing social changes, nurturing intelligent cultural and artistic content convergence talents in regional bases, It aims to discover human care service experts who create shared values to solve social problems.

Through this, by securing creative education and research initiatives of regional base universities and driving high added value in the cultural technology field, which is the main industry in the region, it is possible to revitalize social contribution culture and art content research and create community social value for the region and the country. We are moving forward to nurture “right design convergence talents that benefit human life”.

After graduation, You will have the opportunity to advance into various jobs that will become the basis of future industries, such as convergence content curator, technical art director, media technology content producer/planner, media art producer/planner, digital artist, smart healthcare coordinator, data manager, start-up using intellectual property rights and copyrights·project managers of internal and external companies.

■ Professors

- Ryu, Jaehan
  [Professor, French Language and Literature, jh2059@jnu.ac.kr]
- Jeong, Geumhui
  [Professor, Fine Arts, khjhjung@hanmail.net]
- Choi, Seok

[Professor, Design, choiss@jnu.ac.kr]
- Lee, Guyong
[Professor, Fine Arts, seed290@jnu.ac.kr]
- Ham, Donghan
[Professor, Industrial Engineering, donghan.ham@gmail.com]
- Jeong, Young-Seon
[Professor, Industrial Engineering, young.jeong@jnu.ac.kr]
- Jung, Jungho
[Associate Professor, Design, vava@jnu.ac.kr]
- Ahn, Minjeong
[Assistant Professor, Nursing Science, anminjeong@jnu.ac.kr]
- Min, Jinyoung
[Professor, French Language and Literature, sahara@jnu.ac.kr]
- Shin, Chunseong
[Assistant Professor, Culture Business, jh2059@jnu.ac.kr]

■ Degree Requirements

The Master's degree program

Applicants for master's dissertation are required to meet all following prerequisite requirements.

① Earn 24 credits : Applicants for a master's degree are required to obtain at least 18 credits in the curriculum provided by this interdisciplinary Program, including at least 12 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Meet any one of the following prerequisite:

- At least 1 publication of academic paper in on-campus or off-campus academic journal.
- For the Digital Arts major, participation in at least 2 international exhibitions.
- For the Human Interaction Design major, at least 2 presentations at international academic conferences.

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

The Doctorate program

Applicants for doctorate dissertation are required to meet all following prerequisite requirements.

① Earn 36 credits : Applicants for a doctorate degree are required to obtain at least 27 credits in the curriculum provided by this interdisciplinary Program, including at least 18 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Two or more academic papers worthy of being considered for publication at KCI (solo or lead author)

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

Integrated master's and doctorate program

Applicants for integrated master's and doctorate dissertation proposal are required to meet all

following prerequisite requirements.

① Earn 54 credits : Applicants for an integrated master's and doctorate degree are required to obtain at least 42 credits in the curriculum provided by this interdisciplinary Program, including at least 30 credits in the curriculum of the major.

② Successful passing of qualification examination (general test + foreign language test)

③ Three or more academic papers worthy of being considered for publication at KCI (solo or lead author)

④ All requirements above must be completed and the dissertation must be successfully passed by the dissertation committee to graduate.

■ What Do You Study?

▮ Major in Digital Arts

Seminar : Visual Design
Theory of Fine Arts
Arts & Cultural Marketing
Visual Design Studio
Theory of Korean Contemporary Art
Theory of Contemporary Western Art
Arts And Aesthetics
Contemporary Art Criticism
East and West Comparative Art
Convergence Contents Design
Design Illustration
Theory of Art Creation
Convergence Formation Studio
Formative Arts Techniques 1
Formative Arts Techniques 2
Art Technology
Media & Formative Arts
Digital Fine Art Technics
Art Production Management
Culture & City Civilization
Introduction to Humanities & Arts
Humanities Culture & Arts Seminar
UNESCO Culture Cities
Development of Local Culture & Urban
Cultural Arts & Technology
Cultural Arts Entrepreneurship
Art Merchandise Planning
Culture & Arts Trends
Semiotics
Formative Psychology
Media Art Studio
Sound Design
Theory of Visual Communication
Studies of Design & Formation
Art Psychotherapy
Arts & Copyright
Art Curation
Cultural Archetype & Contents
Digital Contents Planning
Theory of Video & Film
Evolutionary Psychology
Visual Programming
Motion Graphic Special Production Techniques
3D Printer Applications
Motion Graphic Design
Video Animation
VFX Studio
Game Production Studio
Seminar for Convergence of Culture and Arts
Arts Management
Virtual Contents Storytelling
Design Policy Studies
Arts Research Guidance 1
Arts Research Guidance 2
Arts Project Research Training 1
Arts Project Research Training 2
Digital drawing coding practice
Glocal Convergence Studio

▮ Major in Human Interaction Design

Bioinfomatics
Research of Digital Communication

Service Engineering Special Theory
Advanced Topics in Service Engineering
Service Convergence Design
Design Management
Marketing Communication
Design Strategy Simulation
Art & Design Business
Design Research Methodology
Public Brand Design
Introduction to HCI
Interaction Design
Special Topic on Cognitive System Engineering
Cognitive Science and Applications
Development of New Service Production
AI & UX Design
Statistical Research Methodology 1
Statistical Research Methodology 2
Design Quality Management
Service Management Innovation
Database Design
Introduction to Industrial and Information Engineering
AR/VR
Image Media Contents
Media Technology & Design
Art & Computational Thinking
Computer Graphics Programming
New Media & Contents
Interactive Media
Cultural Technology Theory
Healthcare Service Design
Human Physiology
Healthcare IoT
Healthcare BigData Analysis
Healthcare Business & Legal
Mixed Research Methology
Health Education and Promotion
Cognitive Psychology
Design Startup
UI/UX Design
Interface Design
Design Trend
Physiological Computing
User Experience Analysis
Development of AR / VR Contents
Design Thinking & Creative Problem Solving
DesignScience Research
Design Convergence Essence
Arts Product Capstone Design
Design Research Guidance 1
Design Research Guidance 2
Design Project Research Training 1
Design Project Research Training 2
Creative Problem Sloving Design
Digital Transformation Leadership
Design statistics 1
Design statistics 2
ChatGPT and Design Ethics

■ Careers

Students may obtain positions in/as:

▮ Major in Digital Arts

Convergence content curator, content fab creator, technical art director, media technology content producer/planner, digital artist, entertainment director, virtual reality exhibition planner, culture and arts research institute content creator, digital arts convergence educator, media facade, visual effects (VFX) and hologram content planning/production, game and 3D animation producer, etc.

▮ Major in Human Interaction Design

Smart healthcare coordinator, data manager, opening start-ups using intellectual property rights and copyrights, big data curator, medical big data scientist, digital cartographer, technology-based venture start-ups,

public service designer, social media consultant, local contents creator, art & culture product designer, eye-tracking programmer, art trend planner, AI software and related application developer, design consultant, special effects designer, wearable device design and system developer, UI/UX designer, other product convergence interaction designer, etc.

Medical School

Contact Information

Phone: +82-62-220-4000~9
+82-61-379-2510-30
Fax: +82-62-232-9708
+82-61-379-2560
URL: http://medicine.chonnam.ac.kr/english

Pre-medical Science

Medical Science

1) Basic Medical Science
- Department of Anatomy
- Department of Physiology
- Department of Biochemistry
- Department of Pathology
- Department of Pharmacology
- Department of Microbiology and Immunology
- Department of Preventive Medicine
- Department of Forensic Medicine
- Department of Medical Education
- Department of Biomedical Sciences
- Department of Parasitology and Tropical Medicine

2) Clinical Medical Science
- Department of Internal Medicine
- Department of Surgery
- Department of Obstetrics and Gynecology
- Department of Pediatrics
- Department of Psychiatry
- Department of Neurology
- Department of Dermatology
- Department of Orthopedic Surgery
- Department of Neurosurgery
- Department of Thoracic and Cardiovascular Surgery
- Department of Ophthalmology
- Department of Otolaryngology and Head & Neck Surgery
- Department of Plastic and Reconstructive Surgery
- Department of Urology
- Department of Anesthesiology and Pain Medicine
- Department of Radiology
- Department of Radiation Oncology
- Department of Laboratory Medicine
- Department of Nuclear Medicine
- Department of Emergency Medicine
- Department of Physical & Rehabilitation Medicine
- Department of Occupational and Environmental Medicine

Affiliated Research Centers

· Research Institute of Medical Sciences

Dept. of Premedical Course

Contact Information
Phone: +82-62-530-4191
+82-61-379-2516
Fax: +82-62-232-9708
+82-61-379-2560
E-mail: han8432@jnu.ac.kr
http://medicine.jnu.ac.kr/english/

The educational goal of premedical education is to provide a desired college-level training in liberal arts as well as sciences, and to provide a basis for future medical studies. Accordingly, the premedical curriculum is an indispensable period for the medical students to prepare themselves before they move on to medical school. In this premedical curriculum, students should learn subjects with regard to the natural sciences and cultural subjects that will form the basis of a medical curriculum in the future.

■ Professors

See Medical School Professors

■ Degree Requirements

Students are required to earn 74 credits and minimum G.P.A. of 1.75 for all semesters (including summer/ winter session)

■ What Do You Study?

Required Courses

[Major]
Human Embryology and Morphology (3)
Basics for Medical research (3)
Microbial Pathogen and Immunity (3)
Cellular and Molecular Biology (3)
Gross Anatomy of Human Body (3)

[General]
Writing for Self-reflection and Communication (3)
Introduction to Psychology (3)
Career Plan and Self Understanding (2)
Volunteer Social Service (1)
Bioethics (3)
Coaching Leadership for Self-effectiveness (3)

Elective Courses

[Major]
Medical Etymology (3)
Foundation of Medical Science (3)
Microbes & Society (2)
Organic Chemistry 1 (3)
Medical Physics (3)
Brain and Life (2)
Comparative Anatomy (3)
Genetics (3)
Introduction of Medical Humanities (2)
(* At least 12 credits should be chosen.)

[General]
Introduction to Economics (3)

Intellectual Property Right (3)
Understanding of Social History (3)
Logic (3)
Mathematics 1 (3)
Reading & Discussion in English (3)
General Physics 1 (3)
General Biology 1 (3)
General Chemistry 1 (3)
Debate and Democratic Intelligence (3)
The Life and Literature of the Korean People (3)
Contemporary Science Studies (3)
Understanding of Modern Society (3)
Environmental Science (3)
Understanding of Architecture (3)
Classical Literature and Korean Culture (3)
The Strategy of Speaking (3)
Appreciation of Arts (3)
Democracy and Community (3)
Life and Law (3)
Psychology of Human Sexuality (3)
Mathematics 2 (3)
Food and Nutrition (3)
What is History (3)
Artistic Sensibility and Aesthetics (3)
Appreciation of Music (3)
Human and Values (3)
General Physics 2 (3)
General Biology 2 (3)
General Chemistry 2 (3)
Understanding Creative Problem-Solving Process (3)
Introduction to Philosophy (3)
Korean History (3)
Modern Society and Human Rights (3)
Introduction to Contemporary Korean Politics (3)
Introduction to Statistics and Practice (3)
(* At least 32 credits should be chosen.)

Credits Required

At least 9 credits from each field : Creativity, Sensibility, Community Values.

■ Careers

Students who complete the premedical program are automatically admitted to the Medical School.

Dept. of Medical Science

Contact Information
Phone: +82-62-220-4000~9
+82-61-379-2510~30
Fax: +82-62-232-9708
+82-61-379-2560
URL: http://medicine.jnu.ac.kr/english

Based on the CNU educational philosophy of pursuing truth, creativity, and service to the community, our goal is to foster students possessing moral character and human compassion essential in caring for human life, as well as commitment in pursuing the fundamental truths in medicine, for the prevention and treatment of diseases harmful to human beings. In doing so, we aim to cultivate medical personnel who can contribute to the welfare of mankind and lead the advancement of medical science.

1. To instill our students with the basic spirit of philanthropy and service
2. To train our students to have the ability to grasp and solve local and national health issues
3. To train our students to provide primary health care by learning the basic theories of medicine and acquiring clinical training
4. To promote the pursuit of professional medical knowledge and continuing education after graduation
5. To ensure that our students possess the necessary qualifications for conducting creative research and medical education

Medical School has a distinguished history of producing the nation's finest physicians and researchers. Its reputation continues to grow today as the center for medical education and source of outstanding basic and clinical research with global medical applications.

Our core mission is training the next generation of physicians and scientists who will devote their life to help society and improve the human conditions. Medical School provides today's health sciences students with thoughtful and humanistic mentoring by our distinguished and committed faculty, and clinical experiences provided by state-of-the-art learning facilities. We remain committ to provide doctors and scientists with outstanding education in both the art and science of medicine.

Medical School's mission is to provide the best medical education to students, and quality service to its local and international community. We run two medical campuses in Hakdong and Hwasun, both of which are equipped with cutting-edge facilities. We also have outstanding research programs in cardiology, cancer, neurosciences, and infectious diseases. Many other programs provide a network of opportunities for medical and health sciences students.

■ Medical School

The Medical School is committed to teaching and training students through the most modern and efficient academic programs. The programs are aimed at producing able primary care physicians and creative medical scientists. To meet these institutional objectives, the Medical School offers both undergraduate and graduate courses which lead to advanced degrees including Master's and Doctorates

The undergraduate degree is composed of a 2-year premedical and a consequent 4-year medical course.

■ Professors

271 full-time faculty members (Professors: 173, Associate Professors: 68 and Assistant Professors: 30) and 13 teaching assistants are currently employed. The interests of members and contact profiles are located online: http://medicine.jnu.ac.kr.

■ Degree Requirements

Students are required to earn 165 credits (required) and 4 credits (electives). At the end of the fourth year, every student who has fulfilled these requirements will be recommended to the President of Chonnam National University for a Doctor of Medicine Degree (M.D.).

■ What Do You Study?

Graduates and graduate candidates are unconditionally recommended to the National Board of Medical Examinations for a license to practice medicine in Korea.

[Required Courses]

First Year

Lab in Basic Medical Science (2)
Problem-Based Learning 1 (1)
Patient-Doctor-Society 1 (2)
Structure and Function of the Human Body (2)
Cadaver Dissection Course (3)
Basic Medical Science in Digestive System and Metabolism (4)
Microbiology and Parasitology (4)
Basic Neuroscience (4)
Basic Medical Sicence in Endocrine and Reproductive Systems (3)
Introduction to Pathology and Pharmacology (3)
Lab in Histology and Pathology (2)
Basic Medical Science in Cardiovascular and Urinary Systems (4)
Basic Medical Science in Pulmonology and Hematology (2)
Introduction to Clinical Medicine 1 (2)
Introduction to Clinical Medicine 2 (2)
Preventive Medicine (4)

Second Year

Growth and Development (3)
Clinical Medicine in Reproductive System (4)
Clinical Medicine in Digestive System (5)
Clinical Medicine in Cardiovascular System (4)
Allergology and Clinical Immunology (2)
Clinical Medicine in Respiratory System (4)
Clinical Medicine in Musculoskeletal System (3)
Infectious Diseases (3)
Clinical Medicine in Endocrinology and Metabolism (3)
Problem-Based Learning 2 (1)
Clinical Medicine in Nervous System (4)
Clinical Medicine in Urinary System (3)
Clinical Hemato-oncology (3)
Patient-Doctor-Society 2 (1)
Anesthesiology and Emergency Medicine (2)

Dermatology, Opthalmology, Otorhinolaryngology (3)
Psychiatry (3)

Third Year

Clerkship in Infectious Diseases (1)
Clerkship in Endocrinology & Metabolism (1)
Clerkship in Rheumatology (1)
Clerkship in Urology (1)
Clerkship in Obstetrics and Gynecology (4)
Clerkship in Pediatrics (4)
Clerkship in Gastroenterology (2)
Clerkship in Cardiology (2)
Clerkship in Neurology (2)
Clerkship in Neurosurgery (1)
Clerkship in Nephrology (1)
Clerkship in Ophthalmology (1)
Clerkship in Allergy (1)
Clerkship in Surgery (5)
Clerkship in Emergency Medicine (2)
Clerkship in Otorhinolaryngology and Head & Neck Surgery (1)
Clerkship in Psychiatry (4)
Clerkship in Orthopedic Surgery (1)
Summative Evaluation 1 (1)
Clerkship in Dermatology (1)
Clerkship in Hematology & Onocology (1)
Clerkship in Pulmonology (2)
Clerkship in Thoracic and Cardiovascular Surgery (1)
Transition to Clinical Clerkship (1)
Clinical Reasoning 1 (2)
Patient-Doctor-Society 3 (2)
Clinical Reasoning 2 (2)

Fourth Year

Clerkship in Anesthesiology and Pain Medicine (1)
Summative Evaluation 2 (1)
Clerkship in Family Medicine (1)
Clerkship in Radiation Oncology (1)
Clerkship in Forensic Medicine (1)
Clerkship in Plastic and Reconstructive Surgery (1)
Clerkship in Radiology (2)
Clinical Reasoning 3 (2)
Clinical Presentation-Based Practice (2)
Clerkship in Rehabilitation Medicine (1)
Clerkship in Community Medicine (1)
Clerkship in Occupational and Environmental Medicine (1)
Clerkship in Laboratory Medicine (1)
Specialized Clinical Clerkship (2)
Sub-intership (2)
Clerkship in Nuclear Medicine (1)
Patient-Doctor-Society 4 (1)

Department of Anatomy

Contact Information
Phone: +82-61-379-2700

Mission

The Department of Anatomy provides high quality teaching of anatomical sciences to medical students and graduate students as appropriate. The Department is responsible for teaching several courses including Anatomy, Neuroanatomy, Histology, and Embryology and periodically offers electives and special courses for other groups of students and faculty within the Chonnam community. Four faculty members conduct research in various fields of medical science. The Department also administers Body Donation Program to allow Gwangju and Chonnam residents the opportunity to donate their bodies for research and teaching.

Research Interests

1) Clinical and basic proteomics study on oncologic and metabolic diseases
   ① Discovery of biomarkers of diagnosis (early detection and relapse), prognosis, treatment response prediction.
   ② Deciphering of their molecular mechanisms
2) Clinical and imaging anatomy - all aspects as applied to medical practice, new developments in clinical anatomy and teaching techniques
3) Understanding mechanical functions underlying development of urologic cancers
   ① Elucidation of molecular mechanism involved in the progression of hormone resistant prostate cancer
   ② Development of biomarkers to predict recurrence of cancers of prostate and bladder
4) Study on metabolic change in central nervous system (CNS) diseases
   ① The related molecular mechanisms between metabolic diseases and CNS diseases
   ② Discovery of anti-aging mechanisms to cure neurodegenerative diseases

Professors

• Seung Won Lee
[Professor, Anatomy and Histology, Proteomics, seunglee@jnu.ac.kr]
• Kwang Il Nam
[Professor, Anatomy, atlas@jnu.ac.kr]
• Chae Yong Jung
[Professor, Histology and Embryology, chjung@jnu.ac.kr]
• Ju Hyun Song
[Professor, Neuroanatomy, Histology, juhyunsong@jnu.ac.kr]

Department of Physiology

Contact Information
Phone: +82-61-379-2812

Research Interests

1) Development of cell therapy strategies for hearing loss using human mesenchymal stem cells
2) Genetic and epigenetic control of mesenchymal stem cell fate during neurogenic differentiation
3) Study of stem cell transplantation for degenerative CNS disease including Alzheimer's disease, Parkinson's disease, and stroke
4) Neurophysiological mechanisms of vestibularly-evoked responses of the olivocerebellar tract
5) Hormonal and neural mechanisms responsible for the pathogenesis of hypertension
6) Electrophysiological study on the ion channels of the nervous system

Professors

• Jong Seong Park
[Professor, Neurophysiology, parkjs@jnu.ac.kr]
• Han-Seong Jeong
[Professor, Neurophysiology, Stem Cell Bioengineering, hsjeong@jnu.ac.kr]
• Sujeong Jang
[Associate Professor, Stem cell, Molecular biology, Neurophysiology, sujeongjang@jnu.ac.kr]

Department of Biochemistry

Contact Information
Phone: +82-61-379-2778

Research Interests

Biochemistry and molecular biology are essential learning as an academic foundation for medical students to identify the cause of diseases and develop therapies based on the molecular structure and function of biomolecules.

In the department of biochemistry, lectures including the structure and metabolism of proteins, lipids, carbohydrates, and nucleic acids, the regulation of metabolism, hormones, biological membranes, molecular biology, nutrition, cancer, aging, etc. are given to students, thereby widening their understanding of biochemistry.

For first-year medical students, the 'Biochemistry' class is distributed in the various integrated courses and participate mainly in the "Human Physiology and Metabolism", and for the second-year pre-medical students, a 'Cell and Molecular Biology' course is offered (total: 45 hours of lectures; 3 credits). Biochemistry experiments are provided as a "Basic medical experiments" course in conjunction with the departments of microbiology, physiology, and pharmacology (total: 64 hours of practice; 2 credits). There are also lectures, experiments, and seminars for graduate students.

In the department of biochemistry, various experimental devices are equipped to study the fields of biochemistry and molecular biology. The main research topics include among others: studying the role of reactive oxygen species and the development of antioxidants, the elucidation of the aging process, the study of signaling in carcinogenesis and angiogenesis, the study of regulatory mechanisms by miRNA, etc.

Professors

- Young Do Jung
  [Professor, Cancer Biology: Signal Transduction and Genetic Regulation in Angiogenesis and Cancer Metastasis, ydjung@jnu.ac.kr]
- Kee Oh Chay
  [Professor, Cell Adhesion and Migration in Cancer Metastasis, kochay@jnu.ac.kr]
- Seung Rock Lee
  [Professor, Redox Biology and Medicine: Redox Regulation of Tumor Suppressor PTEN and Protein Tyrosine Phosphatases, Enzyme Activity and Cellular Function of Selenoproteins, Ascorbic Acid (Vitamin C) Derivatives. leesr@jnu.ac.kr]
- Kyung A Cho
  [Professor, Cell Signaling in Cellular Senescence and Immunosenescence, kacho@jnu.ac.kr]
- Young Kook Kim
  [Professor, RNA biology, ykk@jnu.ac.kr]
- Bo Ra Lee
  [Assistant Professor, neurodevelopment, molecular biology, blee03@jnu.ac.kr]

Department of Pathology

Contact Information
Phone: +82-61-379-2583

The study of pathology is divided into General Pathology and Systemic Pathology. The former is concerned with the basic reactions to abnormal stimuli that underlie all diseases, while the latter examines the abnormal responses of specialized organs and tissues. The four aspects of disease process (etiology, pathogenesis, morphologic changes, clinical significance) are studied by means of lectures, laboratory work, classroom demonstrations, seminars, case studies, as well as through the use of fresh and museum specimens, along with a full collection of slide teaching sets. The first portion of the course is devoted to the subject of cellular injury and cellular death, cellular growth and differentiation, inflammation and repair, hemodynamic disorders, genetic disorders, disease of immunity, infectious diseases, and neoplasia. The rest deals with special systemic pathology, such as cardiology, hematology, pulmonology, gastroenterology, male and female reproductive systems, neuroscience, nephrology, endocrinology, and the musculoskeletal system.

Professors

• Chan Choi
[Professor, Pathology of Urinary Tract, cchoi@jnu.ac.kr]
• Jong Hee Nam
[Professor, Gynecologic Pathology, jhnam@jnu.ac.kr]
• Jae Hyuk Lee
[Professor, Pathology of Gastrointestinal Tract and Hepatobiliary/Pancreatic System, jhlee@jnu.ac.kr]
• Ji Shin Lee
[Professor, Breast Pathology, jshinlee@hanmail.net]
• Yoo Duk Choi
[Professor, Respiratory pathology, drydchoi@jnu.ac.kr]
• Kyung Hwa Lee
[Professor, Neuropathology, gastrointestinal pathology, oncology, mdkaylee@jnu.ac.kr]
• Sung Sun Kim
[Associate Professor, Uropathology, Renal pathology, oncology, kimsspathology@jnu.ac.kr]

Department of Pharmacology

Contact Information
Phone: +82-61-379-2840
Fax: +82-61-373-6974

Our research ranges from classical pharmacologic work to gene-based work. The following contains recent research interests of faculty members in our department:

1. Study of drug metabolism and pharmacogenomics
2. Characterization of transcriptional factors involved in cardiovascular diseases
3. Investigation of the effects of altering master gene expression on regulating osteoclast function.
4. Characterization of the candidate genes involved in regulation of cell cycles
5. Functional analysis of vascular smooth muscles
6. Development of animal disease models for research into cancer, cardiovascular diseases, and bone metabolic diseases; and the evaluation of the therapeutic potential of specific gene regulation using animal disease models
7. Philosophical reflection on drug therapy and problems of modern medicine
8. Research on medical humanities and ethics
9. Research on the roles of microglia and neuroinflammations in psychiatric disorders
10. Study of the sex-difference in the brain and behavioral patterns

Professors

• Young Chae Lim
[Professor, Clinical Pharmacology, limyc@jnu.ac.kr]
• Hyun Kook
[Professor, Cardiovascular Pharmacology, kookhyun@jnu.ac.kr]
• Nack Sung Kim
[Professor, Molecular Biology, nacksung@jnu.ac.kr]
• Jung Min Kim
[Professor, Molecular Biology, jungminkim@jnu.ac.kr]
• Gwang Hyeon Eom
[Associate Professor, Molecular Pharmacology, eomgh@jnu.ac.kr]
• Park Hyun Sun
[Assistant Professor, Neuropharmacology, hspark91@jnu.ac.kr]

Department of Microbiology and Immunology

Contact Information
Phone: +82-61-379-2748
Fax: +82-61-379-2753

The graduate program in our department offers comprehensive and goal-oriented education, as well as intensive research training, in order to produce qualified and motivated young scientists who will be future leaders in the field of microbiology and immunology. It is our belief that collaborative research among our faculty members will maximize our potential to obtain greater achievements and to reach our goals sooner. Therefore, students in our department are encouraged to become active members of interactive and innovative research groups. Our research interests include cellular microbiology, oral microbiology, immunology, and cancer biology.

Professors

- Joon Haeng Rhee
  [Professor, Immunology, Vaccinology, Molecular Microbiology, jhrhee@jnu.ac.kr]
- Young Jin Hong
  [Professor, Cellular Microbiology, yjhong@jnu.ac.kr]
- Jae Ho Jeong
  [Associate Professor, Infection and Infection control, Bacterial molecular pathogenesis, Bacteria mediated cancer therapy, jeongjaeho@jnu.ac.kr]
- Soo Hyun Kim
  [Assistant Professor, Clinical microbiology, Mycology, alpinboy@jnu.ac.kr]
- Jae Ho Cho
  [Professor, T cell immunobiology, jh_cho@jnu.ac.kr]
- Yoonjoo Choi
  [Associate Professor, Immunoinformatics yoonjoo.choi@jnu.ac.kr]

Department of Preventive Medicine

Contact Information
Phone: +82-61-379-2621
Fax: +82-61-379-2650

Preventive medicine is an unique specialized field of medical practice composed of distinct disciplines that utilize skills focusing on the health of individuals, communities, and defined populations in order to prevent disease, prolong life and promote health through the organized efforts and informed choices of society, organization, public and private, communities and individuals. It is also called 'public health', which puts stress on the community rather than individuals, or 'social medicine' relating social factors to the disease.

Three special areas of preventive medicine are epidemiology, environmental and occupational health, and health policy and management. Epidemiology program has conducted two large-scale population-based cohort studies (Namwon study and Dong-gu study) to determine the etiologies of and effective preventive measures for cardiovascular disease, cognitive decline, osteoporosis and cancer. Health policy and management program deals with community-based health program development. Environmental and occupational medicine works to assess and reduce risks to individuals and communities from chemical, biological and physical hazards in the home, community, school, and workplace environments.

Professors

• Jun-Ho Shin
[Professor, Health Policy and Management, jhshinx@gmail.com]
• Min-Ho Shin
[Professor, Epidemiology, mhshinx@naver.com]
• Sun-Seog Kweon
[Professor, Cancer Epidemiology, ujingogo@paran.com]
• Hye-Yeon Kim
[assistant Professor, Health Policy and Management, hykim615@gmail.com]

Department of Forensic Medicine

Contact Information
Phone: +82-62-220-4090
+82-61-379-2566
Fax: +82-62-223-4250

Forensic medicine is structured with theoretical education in the third year of medical school and subsequent practical training in the fourth year. Lectures in forensic medicine, 12 hours in the first and second quarters of the third year, provide the basic and translational medicolegal knowledge necessary for application to both criminal and civil law and for medical practice, which consists of the causes of sudden unexpected natural death, pathophysiology of shock, post-mortem inspection, post-mortem changes, injuries, asphyxia, poisoning, several kinds of accidental death, DNA fingerprinting, as well as pertinent medical documents and medico-legal jurisprudence. The forensic medicine practical training conducted in the fourth year of medical school consists of legal autopsies, medico-legal case analysis, case presentation, and a tour of the National Forensic Service.

Professors

• Jong Tae Park
[Professor, Forensic Pathology and Anthropology, Molecular Biology, jtpark@jnu.ac.kr]

• Hyung Seok Kim
[Professor, Forensic Medicine, Traumatic Brain Injury, Neurovascular biology, veritas@jnu.ac.kr]

Department of Medical Education

Contact Information
Phone: +82-61-379-2601

The Department of Medical Education was established at Chonnam National University Medical School (CNUMS) in 2001. We have focused on nurturing primary doctors, medical scientists, and medical educators compatible with the educational purposes of CNUMS. We participate in a wide range of educational activities. We offer many excellent courses and programs related to health professional education and research. We provide expertise in curriculum development, innovation in teaching and learning methods, support for the faculty program and student learning, and research in medical education.

Professors

• Eun Kyung Chung
[Professor, Medical Education, ekcmedu@jnu.ac.kr]

• Eui Ryoung Han
[Assistant Professor, Medical Education, jolie@jnu.ac.kr]

Department of Biomedical Sciences

Contact Information
Phone: +82-61-379-2515

History

The Department of Biomedical Sciences was established on January 3, 2006.

Education

We provide the following courses: Basics for Medical Research (3 credits), Genetics (3), Organic Chemistry (3) and Startups and Entrepreneurship (1).

Research Interest

We study Biomedical Sciences via Biophysics, Cell Biology, Developmental Biology, Genetics, Molecular Biology, Molecular Imaging, Nanobiology, Neuroscience and Organic Chemistry.

Below are our faculty members' research interests.

1. Prof. In-Kyu Park: Delivery of genes and proteins into living organisms

Studies to increase the efficiency of the delivery of genes and proteins into living organisms, which would help to develop effective therapeutic modalities against human diseases.

2. Prof. Hee-Young Shin: Clinical epidemiology and research ethics

Prof. Hee-Young Shin works in the area of clinical epidemiology and research ethics. Dr. Shin is mainly interested in the scientific and ethical conduct of clinical trials. Clinical epidemiology and biostatistics are the basic elements to implement scientific clinical research. Moreover, ethical considerations are very important in developing innovative medical treatment. The other areas of interest are geriatric diseases (including dementia) and public health.

3. Prof. Seok-Yong Choi: Fate specification of glial cells

The central nervous system (CNS) consists of neurons and glial cells. Knowledge about fate specification of cells in the CNS is essential to develop therapeutic modalities for CNS diseases, especially neurodegenerative diseases. Whereas the fate specification of neurons has been studied extensively, research into glial cells remains unclear. Our research group investigates the fate specification of glial cells, especially ependymal cells, in the zebrafish model using genetic and cell biological approaches.

4. Prof. Jihoon Jo

Research in our lab focuses on a wide range of projects from molecular mechanisms of synaptic plasticity which is a strong model for learning and memory, and Neurodegenerative disease including Alzheimer's disease.

5. Prof. Hoon Hyun: Molecular Imaging

The lab focuses on the development of novel contrast agents for tissue- and organ-specific targeting and diagnosis. Of particular interest is "Structure-Inherent Targeting," where small molecules can be used for targeting, imaging, diagnosis and therapy by specifically visualizing target tissue with high optical properties and by avoiding nonspecific uptake in normal background tissue.

6. Prof. Stan Razvan: Biophysics and Immunology

We are investigating with biophysical, molecular dynamics and immunological techniques the mechanisms underlying the thermal transfer in immune complexes, at physiological and fever temperatures. The lab is also interested in the ex vivo mechanisms underlying molecular memory formation and duration in protein complexes, upon repeated stimulations.

■ Professors

- In Kyu Park
  [Professor, Non-viral Gene Therapy, Biomedical Engineering, pik96d@gmail.com]
- Seok Yong Choi
  [Professor, Developmental Biology & Drug Development, zebrafish@jnu.ac.kr]
- Hee Young Shin
  [Professor, Pharmacoepidemiology & Bioethics, hyshin@jnu.ac.kr]
- Ji Hoon Jo
  [Professor, Neuroscience, Jihoon.Jo@jnu.ac.kr]
- Hoon Hyun
  [Associate Professor, Molecular Imaging, Cancer Therapy & Drug Delivery, hhyun@jnu.ac.kr]
- Stan Razvan
  [Associate Professor, Biophysics and Immunology, strazvan@jnu.ac.kr]

Department of Parasitology and Tropical Medicine

Contact Information
Phone: +82-61-379-2716

Research Interest

The Department of Parasitology and Tropical Medicine was established in 2019 at Chonnam National University Medical School (CNUMS). The visions of our department are i) to control endemic parasitic infections in Korea and finally to improve public health; ii) to educate medical students with a practical and globalized point of view, and iii) to contribute the development of parasitology as a part of basic medicine.

Parasitology is the study of parasites, their hosts, and the relationship between them. A parasite is an organism that live on or within another organism called the host. These include organisms such as: protozoa, nematoda, cestoda, trematoda, and medically important arthropoda. Medical parasitology is the subject which deals with the parasites that infect humans, the diseases caused by them, clinical features and the response generated by humans against them. It is also concerned with the various methods of their diagnosis, treatment and finally their prevention and control. Tropical diseases are endemic diseases in tropical and subtropical areas. There are many kinds of diseases such as malaria, cholera, dengue fever, sleeping sickness, and yellow fever. Tropical medicine is a medicine that deals with the pathophysiology, diagnosis and treatment of Tropical diseases.

The vision of our research is to overcome parasitic diseases and tropical diseases and to contribute to humanity and society as a basic and true medical scientists. The goals of the research are i) to study Parasites for the treatment of tropical diseases, ii) to study the relationship between Parasites and hosts to overcome intractable immune system diseases; and iii) to utilize useful parasites as translational research.

Department of Internal Medicine

Contact Information
Phone: +82-62-220-6296
Fax: +82-62-228-1330

The Department of Medicine has 9 subdivisions: gastroenterology, cardiology, pulmonology and critical care medicine, endocrinology and metabolic disease, nephrology, hemato-oncology, infectious disease, allergy, and rheumatology.

Medical students are instructed in case-orientated and problem-solving approaches to diverse medical problems. From their third year, students are grouped into small units for clinical practice and turn subdivisions every week where they learn clinical skills and complete their knowledge under close contact with professors, fellows, residents, and patients. Faculty deliver weekly lectures to residents and students. Also, there are weekly case conferences to show typical or difficult clinical problems and journal reviews.

■ Professors

Gastroenterology

- Sung Kyu Choi
  [Professor, Gastroenterology, choisk@jnu.ac.kr]
- Hyun Soo Kim
  [Professor, Gastroenterology, dshskim@jnu.ac.kr]
- Young Eun Joo
  [Professor, Pancreatobiliary Disease, yejoo@jnu.ac.kr]
- Chang Hwan Park
  [Professor, Gastroenterology, p1052ccy@hanmail.net]
- Wan Sik Lee
  [Professor, Gastroenterology, jadelook@hanmail.net]
- Sung Bum Cho
  [Professor, Hepatocellular carcinoma eunabumi@jnu.ac.kr]
- Seon Young Park
  [Professor, Gastroenterology, drpsy@naver.com]
- Dae Seong Myung
  [Assistant Professor, Gastroenterology, colonoscopy, underlove@jnu.ac.kr]
- Yoon Jae Hyun
  [Assistant Professor, Gastroenterology, Hepatology, zenmake14@gmail.com]
- Eunae Cho
  [Assistant Professor, Gastroenterology, Pancreatobiliary diseases, eunaecho@jnu.ac.kr]

Cardiology

- Myung Ho Jeong
  [Professor, Intervention, Atherosclerosis, myungho@chollian.net]
- Youngkeun Ahn
  [Professor, Intervention, Atherosclerosis, cecilyk@hanmail.net]
- Hyung Wook Park
  [Professor, Electrophysiology, Arrhythmia, Syncope, mdhwp@chol.com]
- Young Joon Hong
  [Professor, Intervention, Imaging, Atherosclerosis, hyj200@hanmail.net]

- Hyun Ju Yoon
  [Professor, Echocardiography, Valves, Heart Failure, ann426@hanmail.net]
- Ju Han Kim
  [Professor, Intervention, Hypertension, drfrog@dreamwiz.com]
- Kye Hun Kim
  [Professor, Echocardiography, Valve, Heart Failure, christiankyehun@hanmail.net]
- Namsik Yoon
  [Professor, Electrophysiology, Arrhythmia, Sudden Cardiac Death, Cardiac Implantable Electronic Device, NSAIDs77@hitel.net]
- Doo Sun Sim
  [Professor, Intervention, Atherosclerosis, true1021@gmail.com]
- Ki Hong Lee
  [Professor, Electrophysiology, Cardiac Device, Atrial fibrillation, Sudden cardiac arrest drgood2@naver.com]
- Jae Yeong Cho
  [Associate Professor, Cardiology, jaeycho@jnu.ac.kr]
- Min Chul Kim
  [Associate Professor, Interventional cardiology, Cardiac intensive care, Mechanical circulatory support, kmc3242@hanmail.net]
- Kyung Hoon Cho
  [Associate Professor, Cardiology, zarazoro@hanmail.net]
- Yoo Ri Kim
  [Associate Professor, Cardiology, geniusyul@gmail.com]

Pulmonology

- Young - Chul Kim
  [Professor, Pulmonary and Critical Care Medicine, kyc0923@jnu.ac.kr]
- Sung - Chul Lim
  [Professor, Pulmonary and Critical Care Medicine, lscmd@jnu.ac.kr]
- Yu - Il Kim
  [Professor, Pulmonary and Critical Care Medicine, kyionly@jnu.ac.kr]
- Yong - Soo Kwon
  [Professor, Pulmonary and Critical Care Medicine, yckwon@jnu.ac.kr]
- In - Jae Oh
  [Professor, Pulmonary and Critical Care Medicine, droij@jnu.ac.kr]
- Cheol Kyu Park
  [Associate Professor, Pulmonology, Lung cancer, ckpark214@jnu.ac.kr]
- Hong Joon Shin
  [Associate Professor, Pulmonology, ShinHJ@jnu.ac.kr]
- Kim, Tae Ok
  [Associate Professor, Critical care, respiratory disease, tokim@jnu.ac.kr]

Endocrinology and Metabolism

- Dong Jin Chung
  [Professor, Endocrinology and Metabolism, Bone Vand Mineral Metabolism, Adrenal Metabolism, djchung@jnu.ac.kr]
- Ho Cheol Kang
  [Professor, Endocrinology and Metabolism, Diabetes Mellitus, drkang@jnu.ac.kr]
- Jin Ook Chung
  [Professor, Endocrinology, Diabetes mellitus, jochung@jnu.ac.kr]
- Hee Kyung Kim
  [Associate Professor, Endocrinology and Metabolism, albeppy@jnu.ac.kr]
- Jee Hee Yoon
  [Associate Professor, Endocrinology and Metabolism, jhyoon00@jnu.ac.kr]

Nephrology

- Nam Ho Kim
  [Professor, Acute Renal Failure, Diabetic Nephropathy, nhk111@jnu.ac.kr]
- Soo Wan Kim
  [Professor, Chronic Kidney Disease,

Kidney Transplantation, Hemodialysis, Peritoneal Dialysis, skimw@jnu.ac.kr]

- Seong Kwon Ma
  [Professor, Chronic Kidney Disease, Hemodialysis, Diabetic Nephropathy, Hypertension, Glomerulonephritis, drmsk@jnu.ac.kr]
- Eun Hee Bae
  [Professor, Chronic Kidney Disease, Hemodialysis, Hypertension, Diabetic Nephropathy, Glomerulonephritis, baedark@hanmail.net]
- Chang Seong Kim
  [Associate Professor, Kidney transplantation, Diabetic and Hypertensive Nephropathy, Translational research in Kidney diseases, laminion@hanmail.net]
- Hong Sang Choi
  [Associate Professor, Acute and Chronic Kidney Disease, Dialysis, Hypertension, choihs@jnu.ac.kr]
- Sang Heon Suh
  [Assistant Professor, Chronic Kidney Disease, Hemodialysis, Hypertension, Diabetic Nephropathy, Glomerulonephritis, medssh19@jnu.ac.kr]

Hemato-oncology

- Hyeoung Joon Kim
  [Professor, Hematopoletic Stem Cell Transplant, Acute and Chronic AML, CML, hjoonk@jnu.ac.kr]
- Ik Joo Chung
  [Professor, Gastric Cancer, Colon Cancer, ijchung@jnu.ac.kr]
- Je Jung Lee
  [Professor, Hematopoietic Stem Cell Transplant, Lymphoma, Multiple Myeloma, drjejung@cnuh.jnu.ac.kr]
- Sang Hee Cho
  [Professor, Gastric Cancer, Colon Cancer, sh115@chollian.net]
- Deok Hwan Yang
  [Professor, Hematopoietic Stem Cell Transplantation, Lymphoid Malignancy, drydh1685@hotmail.com]
- Woo Kyun Bae
  [Professor, hemato-oncology, drwookyun@jnu.ac.kr]
- Jun Eul Hwang
  [Professor, Medical Oncology, hjunyl@naver.com]
- Jae Sook Ahn
  [Professor, Hematology-Oncology, f0115a@jnu.ac.kr]
- Hyun Jeong Shim
  [Associate Professor, Medical oncology, Breast cancer, Head and neck cancer, hjnhj@jnu.ac.kr]
- Seo-Yeon Ahn
  [Assistant Professor, Hematology-Oncology, armful12@hanmail.net]

Infectious Diseases

- Sook In Jung,
  [Professor, Infection, sijung@jnu.ac.kr]
- Kyung Hwa Park
  [Professor, Infection, medkid@dreamwiz.com]
- Hee Chang Jang
  [Professor, Infection, haroc153@naver.com]
- Seung Ji Kang
  [Associate Professor, Infection, sseungi@hanmail.net]
- Kim Uh Jin
  [Assistant Professor, Infection, astralio@naver.com]
- Kim Seong Eun
  [Associate Professor, Infection, favorofgod@hanmail.net]

Allergy and clinical immunology

- Young-Il Koh
  [Professor, Allergy, Asthma and Clinical Immunology, yikoh@jnu.ac.kr]
- Da Woon Sim

[Associate Professor, Asthma, Adverse drug reaction, Food allergy, mdsdw@jnu.ac.kr]

Rheumatology

- Shin Seok Lee
  [Professor, Rheumatology, shinseok@jnu.ac.kr]
- Yong Wook Park
  [Professor, Rheumatology, parkyw@jnu.ac.kr]
- Tae Jong Kim
  [Professor, Clinical and Basic Research on Spondyloarthritis (especially Ankylosing Spondylitis), ktj1562@jnu.ac.kr]
- Dong Jin Park
  [Associate Professor, Rheumatology, dongjin02@jnu.ac.kr]

Department of Surgery

Contact Information
Phone: +82-62-220-6456
+82-61-379-7646
Fax: +82-62-227-1635
+82-62-379-7661

■ Sophomore course

The lecture course, 147 hours (7 credits) in total, covers general problems and must be taken for three quarters. There is an examination at the end of each quarter.

■ Junior and Senior course

The clerkship is 3 weeks: a week in the outpatient department, a week in gastrointestinal and hepatobiliary surgery, and a week in endocrinologic and pediatric surgery. The workload for clerks includes ward rounds, case assignments, and informal discussions with faculty surgeons as they appear in weekly schedules. All students should be prepared to participate in preoperative conferences and to assist at operations. Students are exposed to diseased patients who can or should be treated by operative intervention. Students participate in outpatient and inpatient care. They are expected to obtain enough experience in wound care and be familiar with important emergency procedures. Every Friday, case presentation is done by students, and an examination is given.

■ Divisions

Gastroenterologic Surgery, Colorectal Surgery, Hepaticobiliary and Pancreatic Surgery, Endocrine Surgery, Pediatric Surgery, Vascular and Transplantation Surgery, Trauma Surgery

■ Professors

Gastroenterologic Surgery

- Dong Yi Kim
  [Professor, Gastric Cancer and Benign Gastric Diseases, Trauma, dockim@jnu.ac.kr]
- Young Kyu Park
  [Professor, Gastric Cancer and Benign Gastric Diseases, parkyk@jnu.ac.kr]
- Oh Jeong
  [Professor, Gastric Cancer, Benign Colorectal Diseases, surgeonjeong@yahoo.co.kr]
- Ho Gun Kim
  [Associate Professor, Gastric Cancer and Benign Gastric Disease, Laparoscopic Surgery, gastrectomy@hotmail.com]
- Mi Ran Jung
  [Assistant Professor, Gastroenterologic Surgery, miranjung0714@gmail.com]

Colon and Rectal Surgery

- Hyeong Rok Kim
  [Professor, Colorectal Cancer, Benign, Proctology, Trauma, drkhr@jnu.ac.kr]
- Jae Kyun Ju
  [Professor, Colorectal cancer, Benign anal

disease, Inflammatory bowel disease, jkju@jnu.ac.kr]

- Chang Hyun Kim
  [Associate Professor, Colon and Rectal Surgery santiagokim@jnu.ac.kr]
- Soo Young Lee
  [Associate Professor, Colon and Rectal Surgery syleecrs@jnu.ac.kr]
- Han Duk Kwak
  [Associate Professor, Colon and Rectal Surgery galaxy9135@naver.com]

Hepaticobiliary and Pancreatic Surgery

- Chol Kyoon Cho
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, ckcho@jnu.ac.kr]
- Yang Seok Koh
  [Assistant Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, koh88@dreamwiz.com]
- Young Hoe Hur
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, surgihur@naver.com]
- Hee Joon Kim
  [Associate Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation frvyoung@naver.com]

Endocrine Surgery

- Min Ho Park
  [Professor, Breast Cancer, Endocrine Diseases, thokthokl@hanmail.net]
- Jin Seong Cho
  [Associate Professor, Breast Cancer, sabiston@hotmailcom]
- Young Jae Ryu
  [Assistant Professor, thyroid cancer, breast cancer, ryjbrandon@jnu.ac.kr]

Vascular and Transplantation Surgery

- Soo Jin Na Choi
  [Professor, Pediatric, Vascular and Transplantation Surgery, choisjn@jnu.ac.kr]
- Ho Kyun Lee
  [Assistant Professor, Pediatric, Vascular and Transplantation Surgery, hklee@jnu.ac.kr]
- Hyo-Shin Kim
  [Assistant Professor, Vascular and Transplantation Surgery, gideon@jnu.ac.kr]

Traumatic Surgery

- Jung Chul Kim
  [Professor, Liver, Biliary and Pancreatic Diseases, Laparoscopic Surgery, Liver Transplantation, 3rdvivace@hanmail.net]

Trauma Surgery

- Younggoun Jo
  [Assistant Professor, Trauma Surgery thinkjo@jnu.ac.kr]
- Yunchul Park
  [Assistant Professor, Trauma Surgery hellopyc@jnu.ac.kr]

Department of Obstetrics and Gynecology

Contact Information
Phone: +82-62-220-6376
Fax: +82-62-227-1637

In the Department of Obstetrics and Gynecology, 80 hours of formal lectures for sophomore medical students are offered through the second quarter. The lectures for sophomores cover reproductive endocrinology, infertility, general gynecology, gynecological oncology, phenomena and management of pregnancy, labor and puerperium, in both normal and abnormal circumstances. Four weeks are devoted to a clerkship in the ward for clinical experiences of juniors. Daily clerkship begins with participation in journal meetings, beginning at 8:00 am. Students are encouraged to participate in answering and questioning. The objective of the clerkship is to acquaint the student with the varied aspects of the medical care for women, with emphasis on acquiring the basic skills of gynecologic and obstetrical history taking and physical examination, participating and assuming responsibility in the evaluation and care of outpatients and inpatients, and acquiring practical experience in the operating and delivery room areas with close supervision by the staff.

Professors

- Yoon Ha Kim
  [Professor, Perinatology, Genetics, kimyh@jnu.ac.kr]
- Seok Mo Kim
  [Professor, Gynecologic Oncology, seokmo2001@hanmail.net]
- Chul Hong Kim
  [Professor, Urogynecology and Reconstructive Pelvic Surgery General Gynecology, hongkim@jnu.ac.kr]
- Moon Kyung Cho
  [Professor, Endocrinology and Infertility, chomk@jnu.ac.kr]
- Jong Woon Kim
  [Professor, Perinatology, Genetics, jwkimmd@jnu.ac.kr]
- Woo Dae Kang
  [Associate Professor, Gynecologic Oncology, kangwoodae@gmail.com]
- Ju U Chul
  [Associate Professor, Gynecologic oncology, ddiamo94@jnu.ac.kr]

Department of Pediatrics

Contact Information
Phone: +82-62-220-6646
Fax: +82-62-222-6103

The Department of Pediatrics has been providing a diverse range of services aimed at achieving good health and well-being for all children since 1945. We provide active clinical services with 9 pediatric subspecialties including neurology, neonatology, hemato-oncology, cardiology, endocrinology, allergy and respiratory disease, nephrology, gastroenterology and infection.

We anticipate multidisciplinary, dedicated services with the launching of the new state-of-the-art CNU Children's Hospital in 2017. Being the largest tertiary referral pediatric hospital in the Chonnam Provice and Gwangju, CNU Children's Hospital offer not only the most effective treatment and care, but also research activities to meet the needs of our patients, families and society in general.

Research interests:

1. Basic research and clinical care on the treatment of hematologic malignancies, solid tumors, hematologic diseases, immune deficiencies, and rare diseases.
2. Clinical research on hematopoietic stem cell transplantation.
3. Preoperative diagnosis and postoperative care for children with congenital heart diseases. Therapeutic catheter interventions.
4. Right ventricular dysfunction in overload right ventricular pressure models in animals.
5. Biomarkers of diagnosis and genetic changes associated with vasculitis in Kawasaki disease.
6. Variable research on care and prognosis of ELBW (extreme low birth weight) infants.
7. The epidemiology and pathogenic mechanisms of perinatal infection and care of intrauterine infections.
8. Management of patients with childhood epilepsy, headache diseases, and other developmental disorders.
9. Molecular genetic studies for underlying abnormalities of variable neurologic disorders in childhood, clinical studies for the progress of epilepsy in early childhood, and developmental disorders associated with genetic or environmental etiologies.
10. Neonatal jaundice and liver diseases, pathogenesis and treatment of childhood obesity, steatohepatitis in children.
11. Diabetes mellitus, thyroid disease, precocious puberty, short stature, obesity, and Vitamin D metabolic diseases.
12. Pulmonary diseases including respiratory tract infectious disease and congenital pulmonary abnormalities
13. Pediatric allergic diseases including asthma, allergic rhinitis, atopic dermatitis and drug allergies.
14. Congenital Anomalies of the Kidney and Urianry Tract (CAKUT), glomerulonephritis, acute kidney injury, and chronic kidney disease in children

Professors

- Hoon Kook
  [Professor, Pediatric hemato-oncology, Hematopoietic stem cell transplantation, Genetic Rare Disease Center, hoonkook@jnu.ac.kr]
- Chan Jong Kim
  [Professor, Pediatric endocrinology, Vitamin D metabolism, Congenital adrenal hyperplasia, cjkim@jnu.ac.kr]
- Young Ok Kim
  [Professor, Pediatric neurology, Epilepsy, Child Development, ik052@jnu.ac.kr]
- Hee Jo Baek
  [Professor, Pediatric hemato-oncology, Hematopoietic stem cell transplantation for children, pe00069@jnu.ac.kr]
- Eun Song Song
  [Assistant Professor, Neonatology, essong@jnu.ac.kr]
- Hwa Jin Cho
  [Associate Professor, Pediatric Cardiology, Pediatric Critical Care Medicine, chhj98@gmail.com, mdchohj@jnu.ac.kr]
- Eun Mi Yang
  [Associate Professor, Pediatric nephrology, nuts99@naver.com, emyang@jnu.ac.kr]
- Eun Lee
  [Associate Professor, Pediatric allergy and respiratory disease, unelee@jnu.ac.kr, unelee@hanmail.net]

Department of Psychiatry

Contact Information
Phone: +82-62-220-6146
Fax: +82-62-225-2351

The Department of Psychiatry in Chonnam National University Medical School - one of the oldest and leading faculties of psychiatry in Korea - has devoted more than 60 years to exceptional patient care, innovative research, and teaching. The close collaboration between research and clinics are one of our unique strengths, enabling us to provide patients with the best care available as we work to discover more effective strategies to prevent, control, and treat mental disorders. Researches has been carried out in various areas, particularly in the fields of mood disorders, anxiety disorders, schizophrenia, early intervention, geriatric psychiatry, psychopharmacology, psychiatric epidemiology, sleep medicines, psychosomatic medicines, child/adolescent psychiatry, and psycho-oncology. Our department has published many valuable papers in these areas, and we managed more than 50,000 patients per year in outpatient clinics in two national general hospitals. Also, we have managed several national centers for public mental health, schizophrenia rehabilitation, dementia, and child sexual abuse. Today, we continue our long tradition of established excellence in patient care, teaching, and research.

Professors

- Il Seon Shin
  [Professor, dementia, geriatric psychiatry, organic mental disorder, isshin@jnu.ac.kr]
- Jae Min Kim
  [Professor, depressive disorders, alcohol and other substance-related disorder, biological psychiatry
  jmkim@jnu.ac.kr]
- Sung-Wan Kim
  [Professor, schizophrenia, early intervention, youth psychiatry, community mental health
  swkim@jnu.ac.kr]
- Ju Yeon Lee
  [Associate Professor, child and adolescent psychiatry, developmental disabilities, trauma-related disorders, jylee31@jnu.ac.kr]
- Seung Hyong Ryu
  [Associate Professor, anxiety disorder, bipolar disorder, ryush@jnu.ac.kr]
- Seon Young Kim
  [Professor, psycho-oncology, psychosomatic medicine, consultation-liaison psychiatry, sykimpsy@jnu.ac.kr]
- Hee-Ju Kang
  [Associate Professor, mood disorders, psychosomatic medicine, hjkang82@jnu.ac.kr]

Department of Neurology

Contact Information
Phone: +82-62-220-6173
Fax: +82-62-228-3461

The Department of Neurology provides a total of 33 lecture hours to 2nd year medical students during the 3rd and 4th quarters. Topics of lectures include instruction in neurology, neurologic diagnosis, cerebrovascular disease, dementia, seizure disorder, peripheral nerve disorder, movement disorder, infectious CNS diseases, headaches, and other CNS disorders. The lectures are designed to both satiate and stimulate the student's curiosity for "the secret of the brain." Clinical clerkships in neurology are available to 3rd and 4th year medical students. Students have the opportunity to participate in daily conferences, rounds, neuroimaging seminars, journal club, and group meetings for neurologic examination; assist in diagnostic procedures; and assist the emergency stroke team which is always on call. Operations occur around the clock for both interventional surgery and the early management of patients with potential for strokes.

Professors

- Myeong Kyu Kim
  [Professor, Epilepsy, mkkim@jnu.ac.kr]
- Byeong Chae Kim
  [Professor, Cognitive Neurology, byeong.kim@jnu.ac.kr]
- Man Seok Park
  [Professor, Stroke, Demyelinating Disease, mspark@jnu.ac.kr]
- Seung Han Lee
  [Professor, Neuro-ophthalmology, Neuro-otology, Neuromuscular Disease, nrshlee@jnu.ac.kr]
- Seong Min Choi
  [Professor, Movement Disorder, mvement@jnu.ac.kr]
- Joon Tae Kim
  [Professor, Stroke, alldelight2@jnu.ac.kr]
- Tai Seung Nam
  [Professor, Neuromuscular Disorder, nts0022@jnu.ac.kr]
- Kang Ho Choi
  [Associate Professor, Stroke, Neurodegenerative disease, Headache, Sleep disorder, ckhchoikang@chonnam.ac.kr]
- Soo Hyun Cho
  [Assistant Professor, Dementia, Neurodegenerative disease, k906141h@jnu.ac.kr]
- Kyung Wook Kang
  [Associate Professor, Epilepsy & Sleep, neurology@jnu.ac.kr]

Department of Dermatology

Contact Information
Phone: +82-62-220-6698
Fax: +82-62-222-4058

The Department of Dermatology conducts both clinical and basic research by 5 faculty members, 10 residents, 2 fellowship, 2 technicians, and individual research associates.
Faculty member areas of interest in research are:

1) Mycology

The division of mycology is devoted to the investigation of fungal organisms causing skin diseases. Current interest of this division is to identify Dermatophyte species and Malassezia species, a normal flora of human skin, as a causative organism inducing various skin diseases, including atopic dermatitis and seborrheic dermatitis. The method used in this study includes fungal culture, morphology, PCR, and gene sequencing.

2) Biochemistry and Photobiology

This division of biochemistry is devoted to the investigation of basic biochemical processes involved in normal physiology of skin. For example, the distribution and function of peroxiredoxin, an antioxidant, is identified by immunohistochemical stain and western blot analysis.

3) Dermatopharmacology and Clinical Study

Skin pharmacology and toxicology has been studied under clinical efficacy evaluations using bioengineering measurements of physiological properties of skin. Clinical cosmetic research with various products and skin barrier function are performed with objective evaluation methods such as skin color, capacitance, TEWL(transepidermal water loss), elasticity, and neurosensory functions.

4) Dermatopathology

Our department has kept its own dermatopathology laboratory fot over 25 years. Cumulative histopathologic archives are very useful for retrograde clinical studies, as well as immunopathology and tissue prep for Mohs surgery.

5) PDT and LLLT

Photosensitizer and novel porphyrin derivatives are the research interests for treating acne and both benign and malignant skin tumors. Also, low-level laser therapy(LLLT) using light emitting diode LED) are the main research interests for treating rosacea, photorejuvenation, various pigmentation disorders including melasma or Riehl's melanosis, et al. Industry sponsored clinical studies have been conducted for many years.

Professors

- Seong Jin Kim
  [Professor, Dermatotoxicology, Skin Bioengineering, seongkim@jnu.ac.kr]
- Jee Bum Lee
  [Professor, Laser and Light Therapy, Ance, Rosacea, jbmlee@jnu.ac.kr]
- Sook Jung Yun
  [Professor, Dermatology, Malignant melanoma, Pigmentation, sjderma@hanmail.net]

Department of Orthopedic Surgery

Contact Information
Phone: +82-62-220-6336
+82-61-379-7676
Fax: +82-62-225-7794
+82-61-379-7681

Orthopedic surgery or orthopedics is the branch of surgery concerned with conditions involving the musculoskeletal system. The musculoskeletal system includes bones, joints, ligaments, tendons, muscles, and nerves. Orthopedic surgeons use both surgical and nonsurgical means to treat musculoskeletal trauma, sports injuries, degenerative diseases, infections, tumors, deformities and congenital disorders of extremities and spinal column.

Professors

- Taek Rim Yoon
  [Professor, Hip Joint Surgery Biomaterials, tryoon@jnu.ac.kr]
- Sung-Taek Jung
  [Professor, Oncology and Pediatric Surgery, stjung@jnu.ac.kr]
- Keun-Bae Lee
  [Professor, Foot &Ankle, Fracture & Trauma, Sports Medicine, kbleeos@jnu.ac.kr]
- Jong Keun Seon
  [Professor, Knee Joint, Arthroplasty & Sports Medicine, stem cell treatment seonbell@jnu.ac.kr]
- Hyoung-Yeon Seo
  [Professor, Spine Surgery, hyseo2001@hanmail.net]
- Myung Sun Kim
  [Associate Professor, Shoulder and Elbow Surgery, Hand Surgery, mskim@jnu.ac.kr]
- Kyung Soon Park
  [Professor, Hip Joint, Arthroplasty, Osteoporosis and Fracture, chiasma@hanmail.net]
- Sung Kyu Kim
  [Associate Professor, Spine, skkim@jnu.ac.kr]
- Sungmin Kim
  [Assistant Professor, Oncology and Pediatric Surgery, healingos@jnu.ac.kr]

Department of Neurosurgery

Contact Information
Phone: +82-62-220-6606
+82-61-379-7666
Fax: +82-62-224-9865
+82-61-379-7673

The Department of Neurosurgery, one of the largest clinical services at the Chonnam National University Hospital, provides extensive inpatient and outpatient care opportunities. The mission of the department is the advancement of the specialty of neurosurgery through the interrelated efforts of resident training, patient care, and clinical and laboratory research. In particular, the experiences of the faculties fall into virtually every facet of this diverse specialty area. The department is committed to providing the highest quality of neurosurgical care for patients who have an illness or injury that affects the brain, spine, or peripheral nerves. We offer the full range of modern neurosurgical techniques, including cerebrovascular surgery, brain tumor surgery, skull-base surgery, spinal surgery, spinal instrumentation, transsphenoidal surgery, peripheral nerve surgery, stereotactic surgery for movement disorders, epilepsy surgery, pediatric neurosurgery, craniofacial reconstructive surgery, functional surgery, and neuroendovascular surgery. We also have perfected operations since the Neuronavigator system (Brain Lab) Can this be deleted? The sentence is fine without it; if it is kept, something must be added, such as when it was introduced.was introduced.

Research is integral to the department's clinical and academic goals. The department has a well-equipped basic science laboratory space, as well as facilities for clinical research. Current major research projects include brain tumors and molecular neurobiology, cerebral ischemia and experimental models for cerebral aneurysm joined with pharmacology, epilepsy, degenerative spinal disorders, spine injury, and other neurosurgical topics.

The four-year neurosurgery residency program focuses on providing broad academic, clinical, and research experience. We also offer a fellowship for residents interested in further specialization. Clinical internship programs are given to senior students. During the one-week internship, one week of clerkship, students participate in a daily neurosurgical preoperative and postoperative conference, rounds, other seminars, operations, special studies, and emergency care in the emergency and the neurosurgical intensive care unit. Assigned case studies are presented by students and are discussed with staff. Students are evaluated by written examinations, attendance, and the degree of participation in the clinical clerkship. A total of 57 lecture hours are given to third-year medical students during the first and second quarters. The lecture subjects include instruction in neurosurgery, neurosurgical diagnosis, cerebrovascular disease, brain tumors, spinal disorders, neurotrauma, pediatric neurosurgery, functional neurosurgery, and other CNS diseases.

Professors

- Shin Jung
  [Professor, Brain Tumor Surgery, Skull Base Surgery, Neuro-Oncology, sjung@jnu.ac.kr]
- Tae Sun Kim
  [Professor, Cerebrovascular surgery, taesun1963@yahoo.co.kr]
- Jung Kill Lee
  [Professor, Spine Surgery, Neurotrauma, jkl@jnu.ac.kr]
- In Young Kim
  [Professor, Brain Tumor, Head Injuries, Gamma Knife Radiosurgery, kiy87@hanmail.net]
- Sung Pil Joo
  [Professor, Cerebrovascular surgery, Neurotrauma, nsjsp@jnu.ac.kr]
- Kyung-Sub Moon
  [Professor, Brain Tumor Surgery, Skull Base Surgery, Gamma Knife Radiosurgery, moonks@jnu.ac.kr]
- Tae Young Jung
  [Professor, Brain Tumor Surgery, Neuro-Oncology, jung-ty@jnu.ac.kr]
- You Sub Kim
  [Assistant Professor, Cerebrovascular surgery, Neurotrauma, subsub_jh@hanmail.net]

Department of Thoracic and Cardiovascular Surgery

Contact Information
Phone: +82-62-220-6546
Fax: +82-62-227-1636

The Department of Thoracic and Cardiovascular Surgery in our hospital originated in 1965. Currently, our department is subdivided into thoracic and cardiovascular centers, and has a rich tradition of dedicated surgeons who provide expert surgical services to patients with all types of diseases.

Our cardiovascular center offers a full complement of cardiac services for acquired heart disease (especially valve repair and replacement, coronary artery bypass grafts, treatment of thoracic aneurysm, and dissection) and congenital heart disease (especially neonatal heart surgery, adult congenital heart surgery).

Our thoracic center is treating patients who have pulmonary disease, mediastinal disease, and esophageal disease. Efficient cooperation within the medical staff encourages accurate diagnosis, surgery and other supportive care. Also, our department provides outstanding medical services to surgical patients through thoracoscopy and the Da Vinci Surgical Robot System.

Since our department involves vital organs critical to human life, we continue to strive to be the best.

Professors

- Kook Joo Na
  [Professor, Thoracic Oncology Thoracoscopic and Robotic Surgery, kjna@jnu.ac.kr]
- In Seok Jeong
  [Professor, Congenital Heart Disease and Mechanical Ciculatory Support, isjeong1201@gmail.com]
- Sang Gi Oh
  [Professor, Adult Cardiac and Vascular Surgery, drosg@hanmail.net]
- Sang Yun Song
  [Professor, General Thoracic Surgery and Thoracoscopic and Robotic Surgery, sysong@jnu.ac.kr]
- Yo Chun Jung
  [Associate Professor, valvular heart disease & arrhythmia, yochuni@naver.com]
- Kyo Seon Lee
  [Associate Professor, Adult cardiac and aortic surgery, Heart transplantation, waytogosun@gamil.com]
- Do Wan Kim
  [Assistant Professor, Trauma, Surgical critical care, extracorporeal membrane oxygenation therapy, maskjoa@hanmail.net]
- Ju Sik Yun
  [Associate Professor, General Thoracic Surgery and Thoracoscopic and Robotic Surgery, jusikyun@gmail.com]

Department of Ophthalmology

Contact Information
Phone: +82-62-220-6753
Fax: +82-62-227-1642

Since its establishment in 1945, the department of ophthalmology at Chonnam National University Medical School has faithfully implemented medical practice, research, and education, aiming to help the public maintain healthy vision. In particular, it is one of the best eye clinics in Korea, and provides professional care by specialists in ocular surfaces, cataracts, glaucoma, retinal and uveal diseases, oculoplasty, strabismus and pediatric ophthalmology, and neuro-ophthalmology using advanced medical equipment.

This department carries out approximately 50,000 procedures in outpatient care, 2,500 operations, and 1,500 specialized laser treatments per annum. In addition, since 1992, it has operated the Chonnam National University Eye Bank and performed about 600 cases of corneal transplantation surgery. In 2007, it carried out the first suture-less corneal endothelial transplantation surgery (DSAEK) in South Korea.

This department actively conducts basic experimental research, as well as much clinical research, by opening a certified animal laboratory for eye diseases. Through this, dozens of research articles, including SCI level international journals, have been published each year and our excellence in research has been recognized domestically and internationally. In addition, since 1996, the department of ophthalmology has hosted a nationwide ophthalmology academic symposium every year.

Professors

- Kyung Chul Yoon
  [Professor, Cornea and external eye diseases, Cataract and refractive surgery, Oculoplasty, kcyoon@jnu.ac.kr]
- Sang Woo Park
  [Professor, Glaucoma, Cataract, exo70@naver.com]
- Hwan Heo
  [Associate Professor, Strabismus, Neuroophthalmology, Pediatric ophthalmology, hwanheo@jnu.ac.kr]
- Yong Sok Ji
  [Assistant Professor, Retina, Uveitis, yongsok.ji@jnu.ac.kr]
- Mi Sun Sung
  [Assistant Professor, Ophthalmology, Glaucoma, sms84831@hanmail.net]
- Hyeon-Jeong Yoon
  [Assistant Professor, Cornea, Cataract, Oculoplasty, yoonhyeonjeong@hanmail.net]

Department of Otolaryngology and Head & Neck Surgery

Contact Information
Phone: +82-62-220-6776
Fax: +82-62-228-7743

Established in 1942, Chonnam National University's Medical School's Department of Otolaryngology-Head and Neck Surgery is one of the oldest otolaryngology departments throughout the country. From the beginning until now, our mission and vision were to devote ourselves to cure patients and overcome diseases in the field.

We have a long tradition of enthusiastically taking care of ill patients, especially in the region. Chronic otitis media, dizziness, facial palsy, congenital and acquired hearing loss etc. have been our major targets in the otologic field. Benign and malignant tumors, voice problems and many infectious diseases were cured in the heads and necks of patients. Finally, Allergic rhinitis, sinusitis, and (reconstructive) facial plastic surgery were done in the rhinologic division.

We are committed to training the next generation of leaders in the field, including medical students, residents, fellows, and post-doctors. Since the opening of our department, we have been sending out a constant stream of outstanding doctors and researchers in the field of otolaryngology on a national scale.

We have embarked on a new era in the treatment of otolaryngologic by conducting clinical and basic research. Our department has been and is performing many clinical trials, by ourselves and also for international companies. We have a research center for hearing regeneration, head and neck cancer, and Nasal physiology & rhinitis. We have performed and pioneered innovative developments in the diagnosis and treatment of ear, nose, and throat diseases.

Professors

- Sang Cheol Lim
  [Professor, Head and Neck Surgery, limsc@hanmail.net]
- Hyong-Ho Cho
  [Professor, Pediatric Otorhinolaryngology, victocho@hanmail.net]
- Joon Kyoo Lee
  [Professor, Head and Neck Surgery, joonkyoo@hanmail.net]
- Tae Mi Yoon
  [Professor, Head and Neck Neoplasm Laryngology, loveteam96@hanmail.net]
- Dong Hoon Lee
  [Professor, Rhinology, Skull base surgery, Salivary gland tumor, Pediatric otorhinolaryngology, leen3l@hanmail.net]
- Hyung Chae Yang
  [Assistant professor, Rhinology, Sleep medicine, Allergy, blessed@jnu.ac.kr]
- Sung Su Lee
  [Associate professor, Otology, minsunglss@naver.com]
- Hong Chan Kim
  [Assistant professor, Otology, Voice, earnosethroat@daum.net]

Department of Plastic and Reconstructive Surgery

Contact Information
Phone: +82-62-220-6354
Fax: +82-62-220-6357

During the 2nd year curriculum, a total of 10 hours of lectures are given on various topics including reconstructive plastic surgery, congenital anomalies, hand surgery, head and neck surgery, skin tumors, and trauma (including burns). Students are given the opportunity to pursue a one-week clinical clerkship during the 3rd or 4th year of medical school. Student activities include accompanying rounds, receiving case assignments, and informal discussion sessions with staff. Students observe outpatient care in the outpatient clinic and participate in inpatient care under the guidance of residents. Through bedside teaching, students are expected to gain experience in the field of plastic surgery, become familiar with practical patient care, and attend regularly scheduled departmental conferences.

Professors

- Kwang Seog Kim
  [Professor, Breast Reconstruction, Hand Surgery, Head and Neck Tumor, Microsurgery, pskim@jnu.ac.kr]
- Jae Ha Hwang
  [Professor, Aesthetic Surgery, Trauma psjhhwang@daum.net]

Department of Urology

Contact Information
Phone: +82-62-220-6700
+82-61-379-7745 (Hwasun Hospital)
Fax: +82-62-227-1643
+82-61-379-7750 (Hwasun Hospital)

The Department of Urology was established at Chonnam National University in September 1967. The mission of our department of urology is committed to offering the highest quality urologic care, innovative research programs, an outstanding education for world-class leaders, and the discovery and evolution of new ideas and information about urologic disease, from research to the clinical implementation phases of disease control in the field. The Department of Urology has several subdivisions: Uro-oncology, Voiding Dysfunction, Sexual Medicine, Pediatric Urology, Endourology, Urinary Infection, Prostate Disease, Urinary Trauma and Reconstruction, and Urinary Ultrasonography. Our residency and student program is one of the best in the country.

The Department enjoys the strong support of the Chonnam National University Hospital, which is also affiliated with the Hwasun University Hospital and School of Medicine.

Professors

- Kwangsung Park
  [Professor, Sexual Medicine, Prostate disease, uropark@gmail.com]
- Dong Deuk Kwon
  [Professor, Uro-oncology, Prostate Disease, Female Urology, urokwon@gmail.com]
- Taek Won Kang
  [Professor, Uro-oncology, sydad@hanmail.net]
- Seung Il Jung
  [Professor, Uro-oncology, Endourology, Urinary Infection, drjsi51@gmail.com]
- Sun Ouck Kim
  [Professor, Pediatric Urology, Female Urology, Neurourology, seinsena@hanmail.net]
- KYUNGJIN OH
  [Associate Professor, Endourology, Urinary Trauma and Reconstruction, Urinary Ultrasonography, exeokj@hanmail.net]
- Eu Chang Hwang
  [Professor, Urologic Oncology, Genito-urinary infection, urohwang@gmail.com]
- Chung Ho Seok
  [Associate Professor, Urologic oncology, Endourology, Sexual Medicine, Andrology, hschung615@gmail.com]

Department of Anesthesiology and Pain Medicine

Contact Information
Phone: +82-62-220-6893~5
Fax: +82-62-232-6294

The Departement of Anesthesiology and pain medicine was established at Chonnam National University in 1961. Since that time, the Department of Anesthesiology and pain medicine has offered a full range of educational and research opportunities in anesthesia, critical care, and pain management.

Our Department has focused on specific aspects of each of these areas in which faculty members have established strength or increased potential for development.

The research programs include both basic science and applied clinical sciences. These priority research areas are:

A. Cardiovascular Anesthesia Laboratory

Our cardiovascular laboratory focuses on preventing myocardial infarction and its reperfusion injury. The main objective of our laboratory is to search for cardioprotective mechanisms of known or newly manufactured drugs.

In the early 1990's, cardiovascular research focused mostly on hemodynamic effects of study drugs. In that period, Professor Kyung Yeon Yoo, who studied stunned myocardium, performed animal testing using dogs. Nowadays, we are carrying out experiments on rats with an ischemia/reperfusion model. We are also focusing on the Reperfusion Injury Salvage Kinase (RISK) Pathway in ischemia/reperfusion injury.

B. Research for Critical Care Medicine

The Division of Critical Care is dedicated to the collaborative research that improves the management and outcome of critically ill patients. Over the past several years, our research activities have focused on four topics related to patient outcome, respiratory critical care, sepsis laboratory, and basic research:

1. Interventional studies aimed at decreasing the incidence of complications in critically ill patients, such as 'A Comparative Study on Weaning Time of Mechanical Ventilation as Analgesic Strategy Using Different Opioids'
2. Animal studies aimed at finding out the protective effects of new materials or drugs against acute lung injury in animal models
3. Molecular and cellular investigations on pathophysiology of inflammation and sepsis

C. Pain Medicine

The main research interests of this laboratory include the pathophysiological mechanisms of neuropathic, inflammatory, and cancer-related pain to provide rationale for new therapy. The research emphasis is

focused on various neurotransmitters and their receptors, or channels implicated in the modulation of nociception in the spinal cord. We utilize various rodent models inducing chronic pain, behavioral analysis of nociception, and molecular biologic methods.

Professors

- Myung Ha Yoon
  [Professor, Pain Management, Neuroanesthesia, mhyoon@jnu.ac.kr]
- Sang Hyun Kwak
  [Professor, Critical Care Medicine, Cardiothoracic Anesthesia, shkwak@jnu.ac.kr]
- Seong Wook Jeong
  [Professor, Anesthetic Pharmacology, Critical Care Medicine, anesman@jnu.ac.kr]
- Jeong Il Choi
  [Professor, Pain Management, Neuroanesthesia, jichoi@jnu.ac.kr]
- Hong Beom Bae
  [Professor, Critical Care Medicine, Cardiothoracic Anesthesia, nextphil2@jnu.ac.kr]
- Seong Tae Jeong
  [Professor, Neuroanesthesia, Critical Care Medicine, anesjst@jnu.ac.kr]
- Hyung Gon Lee
  [Associate Professor, Pain Management, Regional Anesthesia, leehg@jnu.ac.kr]
- Woong Mo Kim
  [Professor, Pain Management, Regional Anesthesia, kimwm@jnu.ac.kr]
- Seong Heon Lee
  [Associate Professor, Anesthetic Pharmacology, Critical Care Medicine, aneshead@jnu.ac.kr]
- Joung Min Kim
  [Associate Professor, Cardiothoracic Anesthesia, Transplant Anesthesia, tca77@jnu.ac.kr]

Department of Radiology

Contact Information
Phone: +82-62-220-5746
Fax: +82-62-226-4380

Accurate diagnosis is the starting line of patient care. Our department of radiology at Chonnam National University aims to offer the best patient health care available.

The department operates various state-of-the-art diagnostic modalities such as 3.0T MRI, 128 channel volume CT, ultrasound, fluoroscopy, mammography, and plain radiography.

Our radiologists perform and provide interpretations of radiologic exams, biopsy procedures guided by ultrasound or CT scans, and also various interventional treatments for vascular diseases, biliary or urinary tract diseases as well as oncologic interventions such as transarterial chemoembolization (TACE) and radiofrequency ablation (RFA).

In addition to clinical practices, we continuously pursue excellence in health care through research, education, and active interaction with fellow clinicians through consultations or conferences.

The department of radiology consists of the following specializations:

- Abdominal radiology
- Genitourinary radiology
- Thoracic radiology
- Cardiovascular radiology
- Neuroradiology and Head and Neck radiology
- Musculoskeletal radiology
- Breast radiology
- Pediatric radiology
- Interventional radiology

■ Professors

• Yun Hyeon Kim
[Professor, Thoracic Radiology cardiovascular Radiology, yhkim001@jnu.ac.kr]
• Yong Yeon Jeong
[Professor, Oncologic Imaging & therapy, Molecular Imaging Gastrointestinal Radiology, yjeong@jnu.ac.kr]
• Woong Yoon
[Professor, Neuroimaging Neurointervention, radyoon@jnu.ac.kr]
• Sang Soo Shin
[Professor, Abdominal, Genito-urinary Radiology, kjradsss@gmail.com]

• Hyo Soon Lim
[Professor, Breast Radiology, nicolas-hs@hanmail.net]
• Suk Hee Heo
[Professor, Abdominal & Genitourinary Imaging, sheo@jun.ac.kr]
• Ilwoo Park
[Associate Professor, Magnetic Resonance Imaging, Hyperpolarized carbon-13 MR Metabolic Imaging, Artificial Intelligence in Medical Imaging, ipark@jnu.ac.kr]
• Seul Kee Kim
[Associate Professor, Neuro/ Head & Neck imaging, kimsk.rad@gmail.com]
• Byung Hyun Baek
[Associate Professor, Neuroradiology & Interventional Neuroradiology, qorqod10@gmail.com]
• Hyoung Ook Kim
[Associate Professor, Interventional Radiology, cnurad232@naver.com]
• Byung Chan Lee
[Associate Professor, Interventional Radiology, lbcroi@naver.com]

Department of Radiation Oncology

Contact Information
Phone: +82-61-379-7226
Fax: +82-61-379-7249

The mission of Department of Radiation Oncology is to advance the state of knowledge in radiation oncology, to provide the most optimised radiotherapy, to educate medical students, physicians, radiation technologists, physicists, and to develop state-of-the-art research models that can be translated into clinical trials.

Our faculty members are working in close cooperation with colleagues in surgical and medical oncology to facilitate a comprehensive multidisciplinary team approach for the implementation of qualified cancer management.

About three hundred cancer patients are daily visiting on weekdays. Our department is equipped with two CT-simulators, six linear accelerators including Halcyon, VitalBeam, Novalis Tx, and high dose rate remote controled after-loading system for brachytherapy. We provide a wide range of radiation treatment options including high dose rate 3-D brachytherapy, stereotactic radiotherapy, intensity modulated radiation therapy, total body irradiation, respiratory gated radiotherapy, and image-guided radiotherapy.

Recently, faculty members are actively involved in various prospective clinical trials which are conducted by Korean Radiation Oncology Group and translational research in advanced anticancer treatments including immunotherapy.

■ Professors

- Sung Ja Ahn
  [Professor, Radiation Oncology for Lung and Breast Cancer, ahnsja@jnu.ac.kr]
- Taek Keun Nam
  [Professor, Radiation Oncology for Gastrointestinal, Genito-Urinary Cancer tknam@jnu.ac.kr]
- Ju Young Song
  [Professor, Medical Physics (Radiation Therapy Physics), jysong@jnu.ac.kr]
- Mee Sun Yoon
  [Associate Professor, Radiation Oncology for Lung, Breast, Gynecological Cancer, meesunyoon@jnu.ac.kr]
- Jae Uk Jeong
  [Associate Professor, Radiation Oncology for Head and neck tumor, Brain tumor, Esophageal cancer, Hepato-biliary-pancreatic malignancies, jujeong@jnu.ac.kr]

Department of Laboratory Medicine

Contact Information
Phone: +82-62-220-5353
Fax: +82-62-224-2518

The Department of Laboratory Medicine is devoted to cutting-edge laboratory service, outstanding biomedical research, and comprehensive education in our field. Our department includes six services: diagnostic hematology, clinical chemistry, laboratory immunology, clinical microbiology, transfusion medicine, and cytogenetics & molecular genetics. Our department provides laboratory testing for inpatients and outpatients at Chonnam National University Hospital (CNU) and Chonnam National University Hwasun Hospital (CNUHH). There is a laboratory information system (LIS) that interfaces with the hospital information system.

Research interests:

- Diagnostic molecular biology for hematologic malignancy and blood transfusions
- Pathogenesis of fungal infections and antifungal susceptibility testing
- Development of disease-specific biomarkers (tumor markers)
- Diagnostic immunology and molecular diagnostics

Professors

- Jong Hee Shin
  [Professor, Clinical Microbiology, shinjh@jnu.ac.kr]
- Myung Geun Shin
  [Professor, Diagnostic Hematology, Molecular Diagnostics, Cytogenetics, mgshin@jnu.ac.kr]
- Seung Jung Kee
  [Professor, Diagnostic Immunology, Diagnostic Molecular Genetics, sjkee@jnu.ac.kr]
- Hyun Jung Choi
  [Associate Professor, Clinical chemistry, hyunjung.choi@jnu.ac.kr]

Department of Nuclear Medicine

Contact Information
Phone: +82-62-220-5646
Fax: +82-62-223-1666

The Department of Nuclear Medicine provides various diagnostic and therapeutic services for the patients in a safe and non-invasive way. The imaging service furnish functional information along with anatomy for early diagnosis, characterization and determination of severity and prognosis, and prediction of therapeutic responses of diseases. Department provides radionuclide-based therapeutic modalities for cancerous diseases as well as nuclear imaging services for a variety of diseases including many types of cancers, heart disease, gastrointestinal, endocrine, neurological disorders and other abnormalities.

In addition to clinical services, department's research has focused on new innovative imaging technologies to decipher the transformation from normal healthy to abnormal diseased state on biochemical and molecular/cellular level. It also develops the simultaneous Imaging-and-Therapeutic (Theranostics) technology based on the diversification of radiotracers and bioactive molecules/microorganisms.

The ultimate mission/goal of Nuclear Medicine Department is to provide a new avenue with pioneering medical science and technologies for the determination of the status of health, identification of early symptoms and signs for the diseases, prediction of disease courses and the demonstration of precise molecular profile of diseases as a part of the new era of the precision medicine.

Professors

- Ho Chun Song
  [Professor, Nuclear Neurology, Radionuclide Therapy. Medical Radiation Safety, songhc@jnu.ac.kr]
- Jung Joon Min
  [Professor, Molecular Imaging, Cancer Theragnostics, Nuclear Oncology, jjmin@jnu.ac.kr]
- Chang Ho Lee
  [Associate Professor, Biomedical optical imaging, Multimodal imaging, Molecular imaging, ch31037@jnu.ac.kr]
- Seong Young Kwon
  [Associate Professor, Nuclear Oncology, Radionuclide therapy, kwonsy@jnu.ac.kr]
- Ja Hae Kim
  [Assistant Professor, Nuclear Neurology, Radionuclide Therapy, jhbt0607@jnu.ac.kr]
- Sae-Ryung Kang
  [Associate Professor, Nuclear Oncology, Infection, Imaging, srkang@jnu.ac.kr]

Department of Emergency Medicine

Contact Information
Phone: +82-62-220-6809
Fax: +82-62-228-7417

The goal of the Department of Emergency Medicine is to provide the highest quality of emergency medical care to our patients within the setting of advanced research, training, and education. The main focus of research and clinical activities of the department is on cardiopulmonary resuscitation such as basic life support, advanced cardiovascular life support, and advanced trauma life support. The department is also a pioneer in the development of novel solutions to improve several critical and interesting clinical areas including toxicology, emergency medical service system, environmental medicine, disaster medicine, and critical care medicine. Through these activities the members of the department are proud to be able to provide cutting-edge and state-of-the-art emergency care in the community.

Professors

- Young Il Min
  [Professor, Advanced Cardiac Life Support, Trauma, minyi46@hanmail.net]
- Tag Heo
  [Professor, Cerebral Resuscitation, Toxicology, docheo@hanmail.net]
- Byeong Jo Chun
  [Professor, Toxicology, cbjbawoo@hanmail.net]
- Jeong Mi Moon
  [Professor, Toxicology, Resuscitation, drmjm@hanmail.net
- Kyung Woon Jeung
  [Professor, Resuscitation, neoneti@hanmail.net]
- Hyun Ho Ryu
  [Professor, Trauma, oriryu@hanmail.net]
- Byung Kook Lee
  [Professor, Resuscitation, bbukkuk@hanmail.net]
- Yong Hun Jung
  [Associate Professor, Resuscitation, jungyh@cnuh.com]
- Sung Min Lee
  [Associate Professor, EMS, Trauma, Hyperbaric Medicine, em00058@jnu.ac.kr]
- Dong Hun Lee
  [Associate Professor, Resuscitation, Cardiac arrest, Trauma, ggodhkekf@hanmail.net]
- Lee Hyoung Youn
  [Associate Professor, Prehospital trauma life support, Advance trauma life support, Emergency medicine, Resuscitation, apostle09@jnu.ac.kr]

Department of Physical & Rehabilitation Medicine

Contact Information
Phone: +82-62-220-5186
Fax: +82-62-228-5975

The Department of Physical & Rehabilitation Medicine (PRM) is active in developing clinical rehabilitation medicine and furthering clinically applied basic rehabilitation science research. This PRM Lab (a.k.a. Dynamic Rehabilitation Medicine Science and Technology Institute Lab) has deep interests in Neuro-Rehabilitation, Musculoskeletal rehabilitation, Pain rehabilitation, Cardiac rehabilitation, Pulmonary rehabilitation, Pediatric rehabilitation, and Geriatric rehabilitation. We have not only general rehabilitative therapeutic facilities for Physical therapy, Exercise therapy, Occupational therapy, and ADLs training but also special laboratory facilities for Neurophysiologic exercise including Electromyogram-Biofeedback training systems and RS (rehabilitation system) models of BTE (Baltimore therapeutic equipment) systems, 3D-Motion analysis systems, Electrodiagnostic Lab I (for electromyographic studies and intraoperative monitoring) and Electrodiagnostic Lab II (for evoked potential studies and transcranial magnetic stimulation studies) for the diagnosis and the management of muscle and nerve diseases, and a Digital infrared thermography Lab for the evaluation of neuromusculoskeletal pain and its outcomes. We also have cutting-edge rehabilitation systems for improving neuronal plasticity such as finger-synchronized robot-assisted hand rehabilitation systems, body weight support treadmill training systems, dynamic balance evaluation and training systems, 3-D motion analysis systems, and repetitive transcranial magnetic stimulation (rTMS) with Neuronavigation Systems (Brainsight™) for noninvasive brain stimulation. Several research areas are in active operation, provided with evidence-based rehabilitation services for the best functional outcome.

The Neuro-Rehabilitation Team deals with the evaluation and management of patients with strokes, traumatic brain injuries, spinal cord injuries, and cerebral palsy. Our main interests of research rest on neurological recovery with neural reorganization and plasticity, and functional recovery. We also provide non-invasive brain stimulation for people with motor impairments, cognitive disorders, aphasia, and central neuropathic pains. Neurological functions can be improved by stimulating focal brain areas using transcranial magnetic stimulation or transcranial direct current stimulation.

The Musculoskeletal & Sports Rehabilitation Team deals with the evaluation and management of people with a broad range of muscle and joint problems such as back, shoulder, knee, arm or hand pain, and any other musculoskeletal pain or dysfunction caused by trauma, overuse, maladaptive lifestyles, or sporting activities. Individuals with acute and chronic injuries, muscle imbalance, and overuse (repetitive strain) injuries participate in a comprehensive pain management program aimed at restoring functional capabilities and increasing functional status to return home and to the wider community.

The Pain Rehabilitation Team deals with any pain patients receive due to neuromuscular or musculoskeletal pathology, and cancer. The aim of pain rehabilitation is also to increase the functional status and quality of life through various pain-relieving interventions.

The Cardiac Rehabilitation Team deals with the functional evaluation and management of patients with cardiovascular diseases using various aerobic exercise equipment, such as: treadmills, bicycles with ergometers, and upper extremity ergometers. The aim of cardiac rehabilitation is to maintain, restore, and increase the optimal physical, medical, psychological, emotional, vocational, and socioeconomic status of the patients and to maximize the quality of life of patients.

The Pulmonary Rehabilitation Team deals with the functional evaluation and management of persons with pulmonary diseases such as chronic obstructive pulmonary diseases, restrictive lung diseases, and intrinsic lung diseases with the goal of achieving and maintaining the individual's maximum level of independence and functioning in the community.

The Pediatric Rehabilitation Team deals with the functional evaluation and management of pediatric patients with developmental delays, cerebral palsy, musculoskeletal problems such as flat feet and torticollis, and congenital anomalies such as myelomeningocele. We evaluate the status of the children thoroughly and discuss plans for current and long-term management, home-care, as well as dispensing information about the prognosis and precautions that may be taken.

The Geriatric Rehabilitation Team focuses on the functional evaluation and management of symptoms and functions of aging individuals to prevent or minimize disabilities and functional deterioration in order to create and maintain healthy longevity.

The Cancer Rehabilitation Team deals with the evaluation and management of patients with pain and neurological symptoms associated with cancer, peripheral polyneuropathy, dysphagia, lymphedema, and so on. Our main interests of research rest on improving quality of life and reducing complications for cancer patients.

The Neuromuscular Electrodiagnosis Team provides neurophysiological approaches in determining the cause of muscular problems (weakness, wasting diseases, spasms, fatigue, etc.) or sensory problems (decreased sensations, abnormal sensations, etc.). Using various electrophysiological tests of muscles and nerves, we can determine the location, severity and recovery status of nerve and muscle lesions.

The Orthotics and Prosthetics Team implement Orthotic devices to help to improve the function of weakened muscles and joints, correct changes in joint structure, and protect weakened joints on the basis of 3-D motion analysis. Prosthetic devices are used for individuals who lost limbs due to accidents or illnesses, or those born without limbs, to regain function. We offer a multidisciplinary clinical service for patients who need orthotic or prosthetic devices while offering courses of study and education for functional improvement.

Finally, this PRM Lab researches the biomedical sciences oriented to rehabilitation medicine and aims to devote itself to the health and longevity of humans.

We also contribute to an environment which provides optimal rehabilitation for the disabled who reside in the local communities of Gwangju and the wider Jeonnam province in cooperation with other national and regional rehabilitation centers.

Professors

- Sam-Gyu Lee
  [Professor, Brain Neuro-Rehabilitation, Neuro-Musculo-Skeletal Pain Rehabilitation, Geriatric Rehabilitation, sam91@jnu.ac.kr]
- Jae-Young Han
  [Professor, Cardiac Rehabilitation, Neuro-Musculo-Skeletal Pain Rehabilitation, Pediatric Rehabilitation, mhanjy@daum.net]
- Min-Keun Song
  [Assistant Professor, Physical and Rehabilitation Medicine, Pediatric Rehabilitation, Neuro-Rehabilitation, Dysphagia Rehabilitation, Neuromuscular Electrodiagnostic Medicine, drsongmk@jnu.ac.kr]
- Park Hyeng-Kyu
  [Associate Professor, PSports rehabilitation, Neuromusculoskeletal rehabilitation, spinal cord injury rehabilitation, Neurorehabilitation, Neuromuscular electrodiagnosis, h22jhan@jnu.ac.kr]

Department of Occupational and Environmental Medicine

Contact Information
Phone: +82-61-379-8253
Fax: +82-61-379-7791

Occupational and Environmental Medicine (OEM) has continued to become more widely recognized as a specialty with unique capabilities for preventing and treating illnesses and injuries related to working and environmental conditions.

Occupational and Environmental Medicine aims to prevent exposure to harmful factors that cause occupational and environmental diseases in advance, and to help with early diagnosis, treatment, rehabilitation and return to work. The mission of Occupational and Environmental Medicine is to: identify agents in the environment and workplace that affect human health, elucidate their mechanisms, develop strategies for confronting their effects, assess and communicate their risks, and share the knowledge obtained. To pursue the mission fully, multidisciplinary practices covering clinical medicine, toxicology, industrial hygiene, epidemiology, law, and other public health sciences are needed.

Occupational and environmental medicine is a medical field that researches to maintain and promote the physical, mental and social health of not only workers but also local people by identifying various harmful factors induced in the workplace and in the general living environment to prevent, treat and manage health disorders no see. The components of research and services include chemical toxicity, heavy metal exposure, solvent toxicity, epigenetics, occupational asthma, occupational lung diseases, occupational skin diseases, occupational neurological disorders, cumulative traumatic disorders, noise-induced hearing loss, comprehensive risk communication, workers' health management, and diseases of healthcare workers among others.

In addition, students have opportunities to get lectures and conduct their practice in the Department of Occupational and Environmental Medicine Clinic.

■ Professors

• Won-Ju Park
[Associate Professor, Occupational & Environmental Epidemiology, Workers' Health Policy and Management, wonjupark@jnu.ac.kr]

Research Institute of Medical Sciences

Contact Information
Phone: +82-61-379-2881
Fax: +82-61-379-2890

The Research Institute of Medical Sciences came into existence on November 21, 1979, and contributes to the development of medical sciences and the improvement of public health by studying cooperatively pressing issues. The Center is composed of the Director, General Manager, and research departments, focusing on the following activities:

- Developing research tasks in basic and clinical medicine and offering financial support
- Hosting domestic and overseas academic symposia and delivering presentations of research results sponsored by the Institute
- Publishing journals, newsletters, and medical education materials
- Nurturing competent researchers, offering them chances to study abroad, and supporting discussion sessions
- Providing high-tech equipment for various analysis activities

College of Humanities

Contact Information
Phone: +82-62-530-3105, 3106, 3107, 3108
Fax: +82-62-530-3109
E-mail: human@altair.chonnam.ac.kr
URL: http://human.jnu.ac.kr

Departments

- Department of Korean Language and Literature
- Department of English Language and Literature
- Department of German Language and Literature
- Department of French Language and Literature
- Department of Chinese Language and Literature
- Department of Japanese Language and Literature
- Department of History
- Department of Philosophy

Affiliated Research Centers

- British/American Studies Institute
- Center for Philosophical Studies
- European Studies Institute
- Interdisciplinary Program of Asian Culture
- Korean Language and Literature Studies Institute
- Research Center for History and Culture
- Research Center for Japanese Culture
- The Institute of Humanities
- The Institute of Honam Studies
- The Institute of Honam Buddhist Culture
- Eurasian Studies Institute

Korean Language and Literature

Contact Information
Phone: +82-62-530-3130
Fax: +82-62-530-3140
E-mail: korean3130@hanmail.net
URL: http://korean.jnu.ac.kr/

■ What is Korean Language and Literature?

The goal of the Department of Korean Language and Literature is to study the history and structure of spoken and written Korean language scientifically, as well as to appreciate and criticize classical and modern literature. Spoken and written languages are the most basic methods to express the human mind and are a resource to construct mental systems. Therefore, through the study of the nature of language, the use of Korean language and the essence of language art, students are enabled to understand the history, modes, and rules of Korean language and literature.

The Department has developed theories of speech skills, literature appreciation, general and creative writing and have put them to practical use to help students improve their language skills, aesthetic sentiments, and writing skills. General education about Korean language and literature, development of language skills, and cultural aesthetic appreciation are the aims of the Department.

■ Korean Language and Literature

The Department of Korean Language and Literature offers three special fields of study: Korean Linguistics, Korean Classical Literature, and Modern Literature. In the field of Korean Linguistics, the department offers a range of linguistic courses, including semantics, phonology, syntax, and dialectology. The field of Classical Literature includes classical poetry, classical prose, Chinese classics, and oral literature. In the field of Modern Literature, the department introduces students to poetry, novels, drama, and criticism. In addition to the major fields of study, students supplement studies through student associations, such as the Classical Literature Society, Poetry Society, the Novel Society, the Drama Society, the Society for Literary Criticism, and the Korean Language Society. These societies have existed for more than 20 years. Most students in the department are members of one of these six societies, which enable them to study actively and gain many social advantages, even when searching for jobs.

■ Teacher Training Courses

Only 4 students can complete the courses for the teaching profession. They are selected based on their grades until the first semester of the second grade.

■ Graduation Qualification

Students are required to submit an undergraduate thesis, pass Everyday English 1.

■ Careers

Graduates from the Department of Korean Language and Literature work in diverse fields with good language and literary skills. It is regarded that expressing our thoughts and opinions in a logical and persuasive way is one of the most essential capabilities in all societies. Graduates are active in the public information field as well as in the literary world (poets, novelists, and reviewers).

Graduates have entered the press (as producers, journalists, and drama writers), education (as professors, researchers, and secondary school teachers), broadcasting (as reporters, producers, and editors), government offices, and enterprises.

■ Degree Requirements

Graduate Credits

General Culture	Major (Specialization)	Electives (Minor)	Graduate Credits
a minimum of 30 credits	a minimum of 42 credits (63 credits)	a minimum of 58 credits (21 credits)	at least 130 credits

Core Courses

- Major courses (4 courses)

  History of the Korean Language, History of Old Korean Literature, History of Modern Korean Literature, Understanding the Language Provisions of Korean.

- General culture courses (5 courses)

  Literature and Humans, Chinese Characters, Writing, Career Plan and Self Understanding, and Everyday English1.

- Other requirements

  a) Students must complete at least one course from three options: major specialization course, double (joint) major, and minor programs.

  b) Students have to take 3 credits each part of Competence Liberal Arts, and at least 3 credits for Expression and communication, 2 credits for Career and Start-up, 3 credits for Nature and Technology of Balance Liberal Arts, and at least 8 credits in the academic field of Liberal Arts for Humanities.

■ What Do You Study?

Core Courses

Dialectology (3)
Graphemics (3)
History Of Korean Language (3)
History Of Modern Korean Literature (3)
History Of Old Korean Literature (3)
Introduction to Education of Korean as A Foreign Language (3)
Introduction to Korean Folklore (3)
Introduction to Korean Linguistics (3)
Introduction to Korean Modern Literature (3)
Introduction to Korean Old Literature (3)
Korean Grammar (3)
Korean Phonology (3)

Korean Semantics (3)
Language Provisions in Korea (3)
Middle Korean Grammar (3)
Modern Korean Novelists (3)
Modern Korean Poets (3)
Practice of Culture Scenario (3)
Reading in Early Modern Korean (3)
Reading in Korean Modern Drama (3)
Readings in Korean Classical Literature (3)
Readings in Korean Modern Novels (3)
Readings in Korean Modern Poetry (3)
Readings in Middle Korean (3)
Readings in Old Korean Essays (3)
Readings in Sino-Korean Classical Poetry (3)
Sociolinguistics (3)
Studies in Hyang-Ga & Poetry in Koryo Dynasty (3)
Studies in Literary Criticism (3)
Studies in Poetry Chosun (3)
Studies of Korean Oral Literature (3)
Studies of Old Korean Novels (3)
The Methodology and Practice of Korean Linguistics (3)

■ Professors

- Shin-Chung Kim, Ph.D.
  [Professor, Classic Korean Literature, sckim@jnu.ac.kr]
- Hwan-Mo Lim, Ph.D.
  [Professor, Modern Korean Literature, limhm@jnu.ac.kr]
- Dae-Hyun Kim, Ph.D.
  [Professor, Classic Korean Literature, kdh@jnu.ac.kr]
- Hae-Jin Shin, Ph.D.
  [Professor, Classic Korean Literature, hjshin@jnu.ac.kr]
- Hyun-Mi Back, Ph.D.
  [Professor, Modern Korean Literature, hmback@jnu.ac.kr]
- Il-Gu Jang, Ph.D.
  [Professor, Modern Korean Literature, communit@jnu.ac.kr]
- Chae-Hyung Cho, Ph.D.
  [Associate professor, Korean Linguistics, chochaehyung @jnu.ac.kr]
- Seung-Joo Baek, Ph.D.
  [Associate professor, Korean Linguistics, righttodream@jnu.ac.kr]
- Kyung-Sun Jo, Ph.D.
  [Associate professor, Korean Linguistics, puppetjks@jnu.ac.kr]
- Jun-Hwan Yi, Ph.D.
  [Associate professor, Korean Linguistics, yujunhwan@naver.com]
- Jeong-hoon Han, Ph.D.
  [Assistant professor, The culture for Korean language and literature, ganghon78@jnu.ac.kr]
- Jun Choi, Ph.D.
  [Assistant Professor, Korean Linguistics, cjuni@jnu.ac.kr]

English Language and Literature

Contact Information
Phone: +82-62-530-3150
Fax: +82-62-530-3159
URL: http://ell.jnu.ac.kr

What is English Language and Literature?

English Language and Literature was established as a discipline of higher learning in the late 19th century. Having started with a philological inquiry into the English language and canonical literary texts written in English, the field underwent a dynamic transformation over the last century, engaging with other forms of knowledge, such as linguistics, cultural studies, and media studies. Along with such disciplinary innovations, however, English Language and Literature has retained as its central concern of fostering creative and critical abilities through an in-depth study of literary and cultural texts produced in English.

Department of English Language and Literature

Established in 1952, the Department is one of the oldest departments at Chonnam National University. It has been at the forefront of national higher education, offering a full range of undergraduate and postgraduate study programs.

The Department also houses the Joint Program of Foreign Language that offers students an option for double (joint) majors in combined studies of Business Management and other foreign languages, such as French, German, Chinese, and Japanese. This joint program strives to prepare students for better career opportunities.

The undergraduate program focuses on three main areas: English Language Acquisition, English Linguistics, and English Literary Studies.

(1) English Language Acquisition: The department offers a range of English conversation and writing courses to enable students to achieve a high level of English proficiency. In these courses, students also develop English skills for use in a range of academic and professional areas, such as academic research, business, translating, media and tourism.

(2) English Linguistics: The department offers a range of linguistic courses, including the College English Grammar, English Phonology, and English Syntax. These courses introduce students to methods of deeply focused investigations into the English language.

(3) English Literary Studies: The department introduces students to a wide spectrum of imaginative writing in English, from Anglo- Saxon times to the present day. The subjects include a survey of literary history, studies of literary genres, critical theories, and seminars concerning great authors and specialized literary topics. Because of its imperial past, English has become a common language for many prominent writers around the world. The department teaches not only British and American Literature, but also global

literature in English.

By studying a wide variety of texts produced in different parts of the world, students learn to appreciate cultural differences and understand the profundities of the human experience.

■ Professors

- Tae-Un Min, Ph.D.
  [Professor, Modern British Fiction, taeun@chonnam.ac.kr]
- Seung-Hee Roh, Ph.D.
  [Professor, Shakespeare and Gender Studies, rover@chonnam.ac.kr]
- Mi-Ra Oh, Ph.D.
  [Professor, English Phonology, mroh@chonnam.ac.kr]
- Yoon-Hee Na, Ph.D.
  [Professor, Principles of English Language Teaching, yhna@hanmail.net]
- Seunghyun Baek, Ph.D
  [Professor, Applied Linguistics, sh3940@jnu.ac.kr
- Keun Young, Shin, Ph.D
  [Professor, Syntax-Semantics, kyshin@jnu.ac.kr]
- Yeonmin, Kim, PhD.
  [Professor, English Poetry, kogmc@jnu.ac.kr]
- Joori Lee, Ph.D.
  [Associate Professor, Contemporary English Literature, joorilee00@gmail.com]
- Seonghoon Kim, Ph.D.
  [Associate Professor, Contemporary American Literature and Culture, priest23@jnu.ac.kr]
- Euihwack Kang, Ph.D.
  [Associate Professor, Culture Studies and Contemporary American Novel, whanew@gmail.com]
- Scott Allan Findlay
  [Invited Professor, TESOL, scottfindlay@yahoo.com]

■ Degree Requirements

For the B.A. degree in English Language and Literature, students are required to:

1. Complete 13 major courses (39 credits) offered by the Department of English Language and Literature, including 2 mandatory courses (Introduction to English Literature and Introduction to English Linguistics).
2. Students who do not study double-major or minor must take 7 extra major courses (21 credits).
3. Other requirements including elective, general (major courses from other departments) credits or criterion of general categories, etc. vary depending on your admission year.
4. Submit an official English proficiency exam report for graduation, 675 points from TOEIC and the corresponding other exams' certificates are also acceptable.

■ What Do You Study?

First Year Courses

Western Culture and Civilization (3)
British and American Culture (3)
Current Issues and Debate (3)
Media English And Composition (3)

English Phonetics (3)
English Phonology (3)
English Comprehension 1 (3)

Second Year Courses

Survey of American Literature (3)
Survey of British Literature 1 and 2 (3)
Introduction to English Literature (3)
Introduction to English Linguistics 1 and 2 (3)
Business English (3)
English Grammar 1 and 2 (3)
Modern Culltures of English-Speaking World (3)
English Comprehension 2 (3)
English Prose (3)
English Language Acquisition (3)

Third Year Courses

18th and 19th Century British Novel (3)
British Novel 2 (3)
19th Century American Novel (3)
Modern American Novel (3)
Modern British Poetry (3)
Pre-20th Century British Poetry (3)
American Poetry (3)
English Literary Criticism (3)
Ethnic American Literature (3)
Contemporary British and American Drama (3)
English Teaching Methods (3)
Shakespeare (3)
English Syntax (3)

Fourth Year Courses

Advanced English Translation Practice (3)
Children's Literature (3)
Special Topics in English Literature (3)
English Literature in Films and Video (3)
English-Speaking World Literature (3)
Special Topics in English Linguistics (3)
History of the English Language (3)
English Semantics (3)

German Language and Literature

Contact Information
Phone: +82-62-530-3170
Fax: +82-62-530-3179
URL: http://german.jnu.ac.kr

What is German Language and Literature?

Germany's prominence in cultural, geopolitical, and economic aspects accounts for its ever-increasing importance in the world. It comprises the German-speaking heartland, along with Switzerland, Liechtenstein, and Austria. Combined with its geographic centrality in Europe, a reunified Germany has exercised its influence over the international community more than ever before and, thus, created a world-wide interest in its language and culture. Traditionally, Germany has been known for its world-class writers such as Goethe, Heine, and Kafka. The current language Department aims to equip students with skills in communicating in German; understanding German-speaking politics, socioeconomics and cultures, and appreciating German literature.

German Language and Literature

On March 1, 1995, the German Language and Literature and German Education departments merged into the Department of German Language and Literature. When students become sophomores, they begin to specialize in either German Language and Literature or German Area Studies in accordance with their future careers.

In order to help students to learn effectively, the Department provides many resources on German Studies and offers Major courses, including Grammar, Composition, Conversation, History of German Literature, Poetry, Drama, Novels, and Introduction to the German Language.

Professors

- Ja-Kyung Cho, Ph.D. [Associate Professor, German Linguistics, jkcho@jnu.ac.kr]
- Myeong-Soon Jeong, Ph.D. [Professor, German Literature, msnjeong@jnu.ac.kr]
- Dong-Min Choi, Ph.D. [Professor, German Literature, dmchoi@jnu.ac.kr]
- Jeong-Ae Choi, Ph.D. [Professor, German Area Study, ja@jnu.ac.kr]
- Yoojung Jeon, Ph.D. [Professor, German Literature, jeonyj@jnu.ac.kr]
- Chirin Eisele [Invited Professor, German Linguistics, chirin@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally 17 credits per semester (18 credits in exceptional cases). Students must also submit an undergraduate thesis, and demonstrate proficiency in the German language.

■ What Do You Study?

German Language and Literature Major Courses

Cultures of German-Speaking World (3)
History of German Literature (3)
German Lyric And Music (3)
German Masterpieces in Context (3)
Translation Practice of German Literature 2 (3)
Translation Practice of German Literature 1 (3)
Exercise of German for Beginning (3)
Understanding German Sentences (3)
German Sentences Exercise (3)
Practical German Conversation & Composition (3)
Understanding of German Maerchen (3)
Understanding of European Culture (3)
German Culture in Art (3)
German Conversation (3)
German for major students1 (3)
German for major student2 (3)
German Romanticism (3)
Feminism in German Literature (3)
Understanding Of German Novel (3)
German Children Literature (3)
The German Language Learning Through Novels (3)
Literature and Film (3)
The German Society Through lts Novels (3)
German Classic (3)
German Sturm Und Drang (3)
Practical German Practice (3)
German Realism and Naturalism (3)
Sing and Learn German (3)
German Media Culture (3)
German Performing Arts (3)
German Society Depicted (3)
Mythology and German Literature (3)
German Travel Literature (3)
Understanding German Drama (3)
Understanding German Poetry (3)
Modern German Literature (3)
Contemporary German Literature 1 (3)

German Area Studies Major Courses

Principles of German Language Teaching (3)
Research in Development of Teaching Materials & Methods for German (3)
Teaching Logic and Essay Writing for German (2)
Cultures of German-Speaking World (3)
German Grammar (3)
History of German Literature (3)
Appreciation of German Masterpoetry (3)
Exercise of German for Beginning (3)
German Conversation (3)
German Composition (3)
German Reading (3)
Introduction to German Linguistics (3)
Introduction to German-Speaking World Literature (3)
Advanced German Grammar & Reading (3)
Advanced German Conversation & Composition (3)
Practical German Conversation & Composition (3)
Business German Grammar & Reading (3)
Introduction to The Intercultural Communication (3)
Training of The Competence (3)
Understanding of German Texts (3)
Exploring Career Paths of German-speaking areas (3)
Marketing in German Market (3)
Understanding of German Culture Circle (3)
Business German Conversation & Composition (3)
Practical German Practice (3)
Practical German Grammar & Reading (3)
Professional German Grammar & Reading (3)
Professional German Conversation & Composition (3)

Introduction to Germany (3)
Introduction to Life in Germany (3)
German Business Culture (3)
Trade Policy of Germany and EU (3)
German Industries and Market Research (3)
Management Practice in Germany (3)
Practice of International Trade with Germany (3)
Basic German Conversation (3)
Everyday German Conversation (3)
Intermediate German Grammar (3)
Business German (3)
Introduction to German Economy (3)

■ Careers

Graduates can pursue careers in business, the media, the Ministry of Foreign Affairs, international trade, and in academia.

French Language and Literature

Contact Information
Tel: +82-62-530-3190
Fax: +82-62-530-3199
URL: http://french.jnu.ac.kr

What is French Language and Literature?

Traditionally, France has played a pivotal role in the world politically, economically, and culturally. Its role has become even more prominent since the expansion of the European Union. The goal of the Department is to seek a knowledge and creative adoption of aspects of French literature and culture. Students who are trained in the Department are able to introduce French culture to Korea and vice-versa.

School of French Language and Literature at Chonnam National University

The first two years of the undergraduate programs, students are expected to take basic courses designed to help them acquire proficiency in French. For the last two years, they are required to take cognitively demanding courses such as French Linguistics and Literature. When students become sophomores, they begin to specialize in either French Language and Literature or Francophone Culture and Area Studies in accordance with their future careers.

Graduates from previous years have contributed to cultural exchanges between Korea and France, thereby bringing advancement to Korean culture. They have also played an important role in improving Korea's relationships with Europe and Africa.

Professors

- Min Choi, M.A.
  [Professor, French Literature, mchoi@jnu.ac.kr]
- Jae-Han Ryu, Ph.D.
  [Professor, French Literature, jh2059@jnu.ac.kr]
- Chae-Kwang Lim, Ph.D.
  [Professor, French Literature, cklim@jnu.ac.kr]
- Young-Dong Ha, Ph.D.
  [Professor, French Linguistics, ydha@jnu.ac.kr]
- Tae-Hoon Kim, Ph.D.
  [Professor, French Culture, remine@jnu.ac.kr]
- Jin-Young Min, Ph.D.
  [Professor, French Culture, sahara@jnu.ac.kr]
- Soue-Won Rhee, Ph.D.
  [Associate Professor, French Culture, souewon-rhee@jnu.ac.kr]
- Sung-Wook Moon, Ph.D.
  [Assistant Professor, French Literature, moon.sungwook@jnu.ac.kr]
- Lionel BREUGNON
  [Invited Professor, French Conversation, lionel@jnu.ac.kr]

■ Degree Requirements

For the B.A. degree in French litterature, students are required to:

1. Complete 13 courses (39 credits) offered by the Department of French Language and Literature.
2. Submit an undergraduate thesis.

* Students are required to earn 130 credits, normally 17 credits per semester(18 credits in exceptional cases).

■ What Do You Study?

General Courses

Readings in French (3)
French Society and History (3)
Introduction to the French Literature (3)
Elementary French Grammar1 (3)
Elementary French Grammar2 (3)
Elementary French Conversation (3)
Introduction to French Pronunciation (3)
Introduction to French Linguistics (3)
Elementary French Composition (3)

French Language and Literature Major Courses

French conversation in advanced level (3)
French Feminism and Literature (3)
Contemporary French Poetry (3)
French Popular Culture (3)
French composition in advanced level (3)
Special topics in French contemporary fiction (3)
French modern poetry (3)
French Critique (3)
French literature and film (3)
French Literature and Thought (3)
Modern French Drama (3)
Study in French Novel (3)
Understanding French Linguistics (3)
Intermediate French Conversation (3)
Understanding of Lexicography (3)
Intermediate French Grammar (3)
History of French Literature And Art 1 (3)
Introduction to the French Poetry (3)
Introduction to the French Novel (3)
Literature in The Age of Enlightenment (3)
Understanding of French Phrase (3)
Intermediate French Composition (3)
Introduction to French Drama (3)
Contemporary French Novel (3)
History of French Literature And Art 2 (3)
French modern fiction (3)
Advanced level of French grammar (3)
Understanding of French cultural area (3)
Interpretation of French culture (3)
Classic French Drama (3)
French Semantic Structure (3)

French as a Secondary Language Major Courses

The outline of French language (3)
Understanding French Literature (3)
Crash Course in Regional studies of Francophonie (3)
Language and Culture of Francophonie (3)
French Poetry (3)
Sentence structure of French language (3)
Society and History of Francophone Africa (3)
Understanding of Francophone African Cooperation and Development (3)
Society and History of Francophone Europe and North America (3)
Politics and Economics of Francophone Africa (3)
Understanding Regional studies of Francophonie (3)
French Conversation 1 (3)
French Conversation 2 (3)
Readings in French 1 (3)
French Grammar 1 (3)
French Grammar 2 (3)
Readings in French 2 (3)

Practice of French Composition (3)
French Composition 2 (3)
Culture and Arts of Francophonie(3)
Culture and Arts of Francophone Europe and North America (3)
French Composition 1 (3)
Special Topics in French linguistics (3)
Topics in French Literature (3)
Politics and Economics of Francophone Europe and North America (3)
Culture and Arts of Francophone Africa (3)
French fiction (3)
Seminar of Francophonie (3)
Practical French (3)
France Performing Arts (3)

Teacher Training Courses

Teaching theory of French language (3)
Study of French language material and teaching methods (3)
Course on logic and essay writing in French Education (2)

Minor Electives

21 credits must be chosen

■ Careers

Some graduates from the Department have worked as professors, literary critics, and creative writers. Others have worked as either diplomats or journalists including correspondents based in Europe and Africa.

Still, others have worked with domestic and international banks and trading companies. Many graduates also have taught French at high schools.

Chinese Language and Literature

Contact Information
Phone: +82-62-530-3200
Fax: +82-62-530-3209
URL: http://china.jnu.ac.kr

What is Chinese Language and Literature?

Korea and China have historically competed and cooperated with each other in many respects. The future of Sino-Korean relations calls for a more in-depth approach to Chinese language and culture, which is the focus of various courses provided by the Department. Students take courses from the beginner to advanced levels in Chinese conversation and practical Chinese, while deepening their understanding of modern China through a variety of visual and audio materials. Students progressively move to the advanced, comprehensive courses in linguistics such as phonology, literacy, old and modern grammar, cultural linguistics and literary genres like poetry, prose, dramas, essays, novels, literary theories, and literary criticism. The ultimate objective of these various curricula is to help students have an in-depth, comprehensive grasp of politics, economics, and society beyond Chinese language, literature, and culture.

Professors

- Hoi-Seok Yang, Ph.D.
  [Professor, Chinese Literature, hoisyang@jnu.ac.kr]
- Man-Jong Oh, Ph.D.
  [Professor, Chinese Literature, oumj6011@jnu.ac.kr]
- Tai-Wan Kim, Ph.D.
  [Professor, Chinese Linguistics, lomloy@jnu.ac.kr]
- Joo-No Lee, Ph.D.
  [Professor, Chinese Literature, zhongljn@jnu.ac.kr]
- Chun-Seok Jang, Ph.D.
  [Professor, Chinese Literature, jangchun@jnu.ac.kr]
- Bao-Yu Xu, Ph.D.
  [Professor, Chinese Literature, bao123@jnu.ac.kr]
- You-Mi Moon, Ph.D.
  [Assistant professor,Chinese Linguistics, xiammi@jnu.ac.kr]
- Hee-Kyung Lee, Ph.D.
  [Associate Professor, Chinese Literature, xiammi@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally 17 credits per semester (18 credits in exceptional cases). Students must also submit an undergraduate thesis, and demonstrate proficiency in the Chinese language and with computers.

■ What Do You Study?

Understanding of Chinese Linguistics(3)
China's religious and folklore(3)
Understanding of Classical Chinese(3)
Elementary Chinese for Majors (3)
History of Chinese Classic Literature(3)
Philosophy of Chinese Classics(3)
Elementary Chinese Conversation 1(3)
Chinese Grammar 1(3)
Chinese Art & Culture(3)
Reading in Classical Chinese(3)
Intermediate Chinese for Majors(3)
Chinese Poetry(3)
Elementary Chinese Conversation 2(3)
Chinese Grammar 2(3)
Chinese history and historical figures(3)
The History of Modern Chinese Literature(3)
Classical Chinese Grammar(3)
Mass Media & Chinese Culture(3)
Chinese Learning through Multimedia(3)
Advanced Chinese for majors(3)
Chinese Phonology(3)
Intermediate Chinese Conversation(3)
Study about China's communities(3)
Chinese Modern Novel(3)
Chinese Classic Novel(3)
Chinese Literature and Film Adaptation(3)
Chinese Prose(3)
Chinese Composition(3)
Introduction to China's science and civilization(3)
Introduction to Understanding of China's politic and economy(3)
Life and Culture in Contemporary Chinse(3)
Theory of Chinese Classic Literature(3)
Introduction to China's foreign cooperation(3)
Chinese Graphemics(3)
Advanced Chinese Conversation(3)
Lecture on Chinse traditional society(3)
Chinese drama(3)
Practice of Chinese Business(3)
Exercise in Chinese Translation(3)
The History of Chinese Linguistics(3)
Lecture on Chinese modern society(3)
The Comparative Study of Korean & Chinese Culture(3)
Chinese education theory(3)
Chinese Textbook Research and Teaching Method(3)
Chinese Reasoning and Essay Education(3)

■ Careers

Depending on individual preferences, various careers are available to graduates. For example, some graduates have engaged in businesses involving China and/or Taiwan. Others have worked as freelance translators. Still, others have earned graduate degrees from universities overseas and/or at home and have worked as professors or experts.

Approximately 20 graduates from the Department have served as professors at Korean universities and many more graduates have taught at tertiary levels. Students who take teacher training courses are on track to teach at high schools.

Japanese Language and Literature

Contact Information
Phone: +82-62-530-3210
Fax: +82-62-530-3219
URL: https://nihon.jnu.ac.kr

What is Japanese Language and Literature?

Japan has a close relationship with Korea, historically and geographically. This spawns the need for systematic research on Japanese language and literature and other fields of Japanese Studies. While focusing its curricula on meeting such needs, the department aims to produce experts on Japan. In the age of globalization that calls for both a quality education in foreign language and in-depth studies, the department trains students in practical Japanese through basic courses in Japanese language and literature, balanced perspectives of the East and West through Japanese social studies, global vision, and informed citizenship.

The department originally focused on studies in Japanese language and literature. However, in the 21st century, better known as the era of globalization and information, the curricula of the department developed beyond Japanese language and literature, moving toward courses that equip students with a global perspective.

Japanese Language and Literature

The courses in Japanese language include Literacy, Beginners' Conversation, Intermediate Conversation, Practical Conversation, Beginners' Composition, Intermediate Composition, Colloquial Grammar, Standard Grammar, Practice in Listening, the History of Japanese Language, Introduction to Japanese Language, Practice in Pronunciation, and Practice in Chinese Characters in Japanese. Among the courses in Japanese Literature are Beginners' Level of Literature, Introduction to Literature, Modern Literature, the History of Old Literature, Modern Poetry, the History of Contemporary Literature, Understanding Old Poetry, Understanding Old Prose, Literary Criticism, Theories and Practice in Translation, the History of Japan, Essays, and Novels.

The courses of Japanese Studies include Popular Culture, Current Issues, Local Cultures, Understanding Film Culture, Folk Culture, and Linguistic Culture. Along with these academic courses, a variety of Department-wide programs aimed at enhancing the levels of students' Japanese proficiency and knowledge about Japanese culture prepare students to cultivate leadership in academic, economic, and cultural exchanges between Korea and Japan.

Professors

- Jung-Rye Kim, M.A.
  [Professor, Japanese Literature, kjrey@chonnam.ac.kr]
- Yong-Ui Kim, Ph.D.
  [Professor, Japanese Culture, yukim@chonnam.ac.kr]
- Dae-Sung Kim, Ph.D.
  [Professor, Japanese Linguistics, hanbyeol@chonnam.ac.kr]
- Sung Un Jeong, Ph.D.

[Associate Professor, Japanese Literature, sujeong@chonnam.ac.kr]
- Seong-Eun Kim, Ph.D.
  [Assistant Professor, Japanese Thought, jnu2012@chonnam.ac.kr]
- Jiyoung-Lim, Ph.D.
  [Professor, Japanese Linguistics, jy-lim@jnu.ac.kr]
- Hyeon Il Moon, M.A.
  [Guest Professor, Japanese Linguistics, moonhagi@chonnam.ac.kr]
- Iida Saroi M.A.
  [Guest Professor, Japanese?Korean Linguistics, saori77@chonnam.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally 17 credits per semester (18 credits in exceptional cases). Students must also submit an undergraduate thesis, and demonstrate proficiency in the Japanese language and with computers.

■ What Do You Study?

Core Courses

Japanese Grammar on Spoken language (3)
Japanese Conversation and Composition 1 (3)
Japanese Popular Culture (3)
Japanese for Reading (3)
Japanese conversation and composition 2 (3)
Introduction to Japan Literature (3)
Japanese Living Culture (3)
Japanese Conversation and composition 3 (3)
Japanese Religion and Culture (3)
Practice of Chines Characters In Japan (3)
Introduction to Japanese literature (3)
Japanese Grammar on literary language (3)
Japanese Listening Exercise (3)
Japanese Conversation and Composition 4 (3)
Japanese History Culture (3)
Japanese Cinema Culture (3)
Business Japanese (3)
Introduction to Japanese politics (3)
Japanese Oral Culture (3)
Japanese Literature Appreciation (3)
Introduction to Japanese Linguistics (3)
Japanese Feminism and Literature (3)
History of Japanese contemporary literature (3)
Japanese Geography (3)
History of Japanese Classical Literature (3)
Japanese Folk Culture (3)
Japanese Novel (3)
History of Japanese (3)
Contemporary Japanese Society and Culture (3)
Japanese Contemporary poetry (3)
Thesis Research (3)
Understanding of Japanese Classic Literature (3)
Japanese Meiji Literature (3)
Japanese Sociolinguistics (3)
Practical Business Japanese (3)
Introduction of Translation & Interpretation between Korean and Japanese (3)
Criticism of Japanese Literature (3)
Japanese economy and our life (3)
Korea - Japan Relations (3)
Japanese Performing Arts (3)
Total Credits: 120

Teacher Training Courses

Principles of Japanese Language Teaching (2)
Japanese Education Theory (3)
JLF Instructional Materials (3)
Total Credits: (8)

International Internships

Managerial Field Work of Global Era (5)
Economic Field Work of Global Era (5)
Total Credits: 10

History

Contact Information
Phone: +82-62-530-3240
Fax: +82-62-530-3249
URL: http://history.jnu.ac.kr

What is History?

The goal of the Department of History is to achieve understanding of humanity through looking at past events and human society. Lectures and seminars which deal with those topics in the Department of History help students to understand the characteristics of the human condition and society. The discipline is also set to examine transitions in human history and analyze humanity and its society at any specific period. The department offers various courses which comprise the whole realm of human accomplishments, such as politics, society, economy, culture, science, art, and others.

Department of History

Since it was founded at Chonnam National University in 1952, the Department of History has grown to be one of the most respected departments within the University and in Korea. Within the Honam region of Korea, the department is generally regarded as the most prestigious in the field of history.

The Department has 11 full-time faculty members, 17 part-time instructors, 30 full-time graduate students, and 165 undergraduate students. The department faculty are committed to helping students think critically and independently, and make them understand how cultures have evolved and become what they are today. The undergraduate program focuses on three main areas: Korean history, Asian history, and Western history. The discipline of the faculty, which ranges across the major geographical and chronological fields, covers from ancient Korea history to contemporary U.S. history.

The department enjoys a reputation for excellence in both undergraduate and graduate teaching. It offers undergraduate and graduate degrees.

Professors

- Bong-Joong Kim, Ph.D.
  [Professor, Modern and Contemporary U.S., bjkim@chonnam.ac.kr]
- Seon-Ja Yoon, Ph.D.
  [Professor, Modern and Contemporary Korea, yoon0929@chonnam.ac.kr]
- Hae-Young Choi, Ph.D.
  [Professor, Ancient Greece and Rome, chyoung@chonnam.ac.kr]
- Han-Yong Song, Ph.D.
  [Professor, Modern and Contemporary China, songhy@chonnam.ac.kr]
- Sang-Chul Park, Ph.D.
  [Professor, Modern Russia, sachpak@chonnam.ac.kr]
- Byoung-In Kim, Ph.D.
  [Professor, Medieval Korean History, kimbi36@chonnam.ac.kr]
- Chong-Myong Im, Ph.D.
  [Professor, Modern Korea

imcmyong@chonnam.ac.kr]
- Sung-Won Lee, Ph.D.
  [Professor, Ancient History of China luxlee68@chonnam.ac.kr]
- Eun-Young Kang, Ph.D.
  [Professor, Ancient History of Japan kuare@hanmail.net]
- Pae-Hwan Seol, Ph D.
  [Associate Professor, History of the Mongol Empire, shah@naver.com]
- Chang-Su Kim, Ph.D.
  [Assistant Professor, History of the Joseon Dynasty, hangu147@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 12 credits from core courses and 21 credits from electives. Students must also submit an undergraduate thesis.

■ What Do You Study?

Core Course

Introduction to Historiography (3)
Introduction to Historical Documents 1 (3)
Introduction to Historical Documents 2 (3)
Historical Research Practicum (3)

First Year Courses

The Understanding of Culture Heritage (3)

Second Year Courses

Ancient History of Asia (3)
Medieval History of Asia (3)
Ancient History of Europe (3)
Medieval History of Europe (3)
History of Chinese Historiography (3)
Ancient History of Korea (3)
Pre-modern History of Korea (3)
Historiography of Korean History (3)
Medieval History of Korea (3)
Conversation with History (3)
Local History of Asia (3)

Third Year Courses

Modern History of Asia (3)
Socio-economic History of Asia (3)
Contemporary History of Asia (3)
History and People (3)
Modern History of Europe (3)
History of Western Social Thought (3)
Contemporary History of Europe (3)
History of Russia (3)
Modern History of Korea (3)
Issues on Korean History (3)
Socio-economic History of Korea (3)
Contemporary History of Korea (3)
Historical Resources and Cultural Contents (3)
Research Theory of History(3)

Fourth Year Courses

Topics in Asian History (3)
History of Eastern Social Thought (3)
History of America (3)
Topics in Western History (3)
History of Everyday Life in the West (3)
History of Japan (3)
Study of Provincial History (3)
Culture-art History of Korea (3)
History of Korean Thought (3)

■ Careers

Our graduates are proud of their education in the department and have gone on to a variety of successful careers, including research, education, public service, and many other areas in society.

Philosophy

Contact Information
Phone: +82-62-530-3220
Fax: +82-62-530-3229
URL: http://philos.jnu.ac.kr/

What is Philosophy?

Philosophy is a fundamental discipline which provides opportunities for discourses to have functional relationships with one another. It is also the basis for all the humanities and natural sciences, including law, medicine, medical science, economics, and art. Accordingly, philosophy is not only a symbolic sign of culture; thereby, grasping the essence of humans, society, culture, and the world in a holistic manner through critical and creative thinking, but also a discipline that provides an academic foundation for students to grow into real professionals in any field.

Department of Philosophy

Philosophy greatly helps students improve their ability in critical thinking, logical writing, and reasonable communication, which are emphasized in modern societies, particularly in knowledge- based and pluralistic societies. In knowledge-based societies, in which majors and occupations tangle delicately like a cobweb and in pluralist societies, in which values that are seemingly contradictory with one another might coexist, the ability to communicate plays an important role in acquiring professional knowledge.

Responding to the needs of our time, philosophy provides concrete theories and methods to improve communication ability, to clearly understand others' writing and speaking, to logically and persuasively express one's thoughts and assertions, and further, to accept more reasonable opinions. In this light, professionals from every field actively advise to choose philosophy not only as a major, but also as a double major or minor.

Professors

- Kang-Seo Rhee, Ph.D.
  [Professor, Ancient Western Philosophy, gsrhee@chonnam.ac.kr]
- Yang-Hyun Kim, Ph.D.
  [Professor, Kant and Practical Philosophy, yhkim2@chonnam.ac.kr]
- Yoon-Ho Cho, Ph.D.
  [Professor, Chinese Buddhism, choyh@chonnam.ac.kr]
- Ku-Yong Park, Ph.D.
  [Professor, Political Philosophy, parksem@chonnam.ac.kr]
- Sang-Bong Kim, Ph.D.
  [Professor, Kant and Aesthetics Philosophy, oudeis@hanmail.net]
- Mi-Ra Chung, Ph.D.
  [Professor, German Idealism and Social Philosophy, mirachung@hanmail.net]
- Kim Su Rasmussen, Ph.D.

[Professor, History of Ideas and French Philosophy, seokilseung@gmail.com]
- Soon-Ja Yang, Ph.D. [Professor, Early Chinese Philosophy, zhaohun@gmail.com]
- Hyoung-Seok Ham, Ph.D. [Associate Professor, Indian and Buddhist Philosophy, hamhs@jnu.ac.kr]
- Won-seok Lee, Ph.D. [Assistant Professor, Chinese Philosophy_Neo-Confucianism, ophil91@chonnam.ac.kr]

■ Degree Requirements

For the B.A. degree Philosophy, students are required to:

1. Complete 13 courses (39 credits) offered by the Department of Philosophy.
2. Submit an undergraduate thesis.

* Students are required to earn 130 credits, normally 17 credits per semester(18 credits in exceptional cases).

Liberal arts	Major (Specialization)	Electives	Graduate Credits
a minimum of 30 credits	a minimum of 39 credits (60 credits)	a minimum of 40 credits	at least 130 credits

■ What Do You Study?

Core Courses

Introduction of Oriental Philosophy (3)
History of Ancient and Medieval Western Philosophy (3)
History of Indian Philosophy (3)
Logic and Critical Thinking (3)
Western Civilization: Renaissance to Enlightenment (3)
Western Civilization: Modernism (3)
Ethics (3)
Indian Buddhist Philosophy (3)
History of Chinese Philosophy (3)
Digital Humanities and Philosophy (3)
Plato and Aristotle (3)
Critical Philosophy (3)
Mahyna Buddhism (3)
Digital Curation of Philosophy (3)
History of Modern Western Philosophy (3)
Western Civilization: Romanticism to Impressionism (3)
Western Civilization: Postmodernism to the Contemporary Era (3)
Epistemology (3)
History of Korean Philosophy (3)
Contemporary Philosophy of Law (3)
Confucius and Mencius Philosophy (3)
German Idealism (3)
Contemporary French Philosophy (3)
Metaphysics (3)
Contemporary Korean Thoughts (3)
East Asian Buddhism (3)
Philosophy of Culture (3)
Buddhist Epistemology (3)
Philosophy of Language (3)
Early Chinese Philosophy (3)
Korean Confucianism (3)
Greek Philosophy (3)
Chinese Neo-Confucianism (3)
Philosophical Essays (3)
Korean Buddhism (3)
Phenomenology and Existential Philosophy (3)
The Philosophy of Economics (3)
Lao Tzu and Chang Tzu'S Philosophy (3)

Social Philosophy (3)
Philosophy of History (3)
British and American Philosophy (3)

Teacher Training Courses

Principles of Philosophy Teaching (3)
Philosophy Instructional Materials (3)
Logic and Essay Writing in Philosophy (2)

■ Careers

Diverse career opportunities are open to graduates with an undergraduate degree in philosophy. Their excellence in synthetic judgment and reasonable communication is clearly recognized in the world of education, the press, culture, and various industries. Some graduates have earned graduate degrees from either universities overseas or in Korea and worked as professors or researchers. Others have worked as high school teachers (those who complete teacher training courses), instructors for in-service programs to industries, philosophical management counseling, communication consulting, reading and writing, education contents design, and ethological development.

Some have entered the world of public service (as government officials) broadcasting (as reporters, producers, broadcast writers, journalists), consulting (as consultants), literature (as culture-related writers, critics, game scenario writers), organization (as planners and operators of international conferences), and business (as company managers) among others. The Department of Philosophy will try to help students realize their career goals.

College of Natural Sciences

Contact Information
Phone: +82-62-530-3305
URL: http://natural.jnu.ac.kr

Departments

- Department of Mathematics
- Department of Statistics
- Department of Physics
- Department of Chemistry
- Department of Biological Sciences
- Faculty of Earth Systems and Environmental Sciences
  - Geological Sciences major
  - Oceanography major
- School of Biological Sciences and Technology

Affiliated Research Centers

- Institute for Condensed Matter Theory
- Institute of Statistics

Mathematics

Contact Information
Phone: +82-62-530-3330
Fax: +82-62-530-3349
URL: http://math.jnu.ac.kr

What is Mathematics?

Mathematics may be defined as the study of quantity, structure, space, relation, change, and various topics of pattern, form, and entity. Moreover, mathematics enables one to explain the essence of nature itself and extrapolate by utilizing rigorous mathematical logic. Mathematics can be divided into several departments of study: algebra, which is based on the operations of numbers; analysis, which studies the properties of functions; topology, which is the study of the properties of spaces; and applied math, which is concerned with the application of mathematical knowledge to other fields. Today, mathematics is used as an essential tool in many fields, including natural science, engineering, medicine, and social sciences, such as economics and psychology.

Department of Mathematics at CNU

The major in Mathematics was established in 1952 with the founding of Chonnam National University. The principal goal of the major in Mathematics is to conduct high quality instruction and research in pure and applied mathematics.

The Department offers undergraduate and graduate studies leading to Bachelor's, Master's, and Doctoral degrees.

The research fields of the Department include algebra, analysis, geometry, topology, applied mathematics, and mathematics education. In addition, the Department sponsors various groups of regular seminars for undergraduate students and colloquia for faculty members and graduate students.

Professors

- Dong-Soo Kim, Ph.D.
  [Professor, Geometry, dosokim@jnu.ac.kr]
  (Submanifold Theory, Conformal Vector Fields, Einstein Spaces)
- Bok-Hee Im, Ph.D.
  [Professor, Algebra, bim@jnu.ac.kr]
  (Group Theory and their Generalizations, Non-associative Rings and Algebras Geometry, Cryptology)
- Hyeong-Kwan Ju, Ph.D.
  [Professor, Combinatorial Mathematics, hkju@jnu.ac.kr]
  (Dynamical Systems)
- Jeong-Ook Kim, Ph.D.
  [Professor, Applied Mathematics, jkim@jnu.ac.kr]
  (Systems Theory, Operator Theory)
- Min-Kyu Kwak, Ph.D.
  [Professor, Analysis, mkkwak@jnu.ac.kr]
  (Partial Differential Equations,

Ordinary Differential Equations, Dynamical Systems)
- Young-Bok Chung, Ph.D. [Professor, Analysis, ybchung@jnu.ac.kr] (One or Several Variable Complex Analysis)
- Jong-Taek Cho, Ph.D. [Professor, Geometry, jtcho@jnu.ac.kr] (Riemannian Geometry related with Contact Structures or Complex Structures, Pseudo-Hermitian Geometry, CR-Geometry)
- Byeong-Chun Shin, Ph.D. [Professor, Applied Mathematics, bcshin@jnu.ac.kr] (Numerical Analysis)
- Young-Joo Lee, Ph.D. [Professor, Analysis, leeyj@jnu.ac.kr] (Several Variable Complex Analysis)
- Dae-Heui Park, Ph.D. [Professor, Topology, dhpark3331@jnu.ac.kr] (Algebraic Topology, Semi-Algebraic Topology)
- Do-Yong Kwon, Ph.D. [Professor, Number Theory, doyong@jnu.ac.kr]
- Hong-Sung Jin, Ph.D. [Professor, Applied Mathematics, hjin@jnu.ac.kr] (Uniform Superconvergence Wavelets)
- Sang-Wook Kim, Ph.D. [Associate Professor, Algebra, swkim.math@jnu.ac.kr]
- Hyun-Cheul Lim, Ph.D. [Assistant Professor, Financial Mathematics, limhc@jnu.ac.kr]
- Ji-Hoon Lee, Ph.D. [Assistant Professor, Analysis, jihoon@jnu.ac.kr] (Partial Differential Equations and Dynamical Systems)

■ Degree Requirements

Students are required to earn 130 credits, with 24 credits from general courses, 21 credits from core courses, and 21 credits from electives. Students are also required to demonstrate proficiency with computers and in a foreign language (English).

■ What Do You Study?

Core Courses

Linear Algebra and Laboratory (3)
Analysis 1 and Laboratory (3)
Set and Logic (3)
Topology 1 and Laboratory (3)
Differential Geometry 1 and Laboratory (3)
Abstract Algebra 1 and Laboratory (3)
Complex Variables 1 and Laboratory (3)
Differential Equations 1 and Laboratory (3)
Mathematical Statistics 1 (3)
Theory of Numbers (3)
Computer Aided Mathematics (3)
Analysis 2 (3)
Differential Equations 2 (3)
Actuarial Mathematics (3)
Advanced Linear Algebra (3)
Theory Of Mathematical Education (3)
Combinatorics and Graph Theory (3)
Basic Probability Theory (3)
Big data programming (3)
Teaching for Secondary School Mathematics (3)

Electives

Algebra and Geometry (3)
Mathematical Programming and Laboratory(3)
Introduction to Geometry (3)

A Course on Mathematics Logic and Essay writing (2)
Vector Analysis (3)
Complex Variables 2 (3)
Numerical Analysis and Laboratory (3)
Topology 2 (3)
Matrix Theory and its Applications (3)
Abstract Algebra 2 (3)
Computational Finance and Practice (CapstonDesign) (3)
Basic of Real Analysis (3)
Differential Geometry 2 (3)
Teaching Skill in Mathematics (3)
Applied Algebra (3)
Introduction to Mathematical Finance (3)
Topics in Mathematical (3)
Topics in Actuarial Mathematics (3)
History of Mathematics (3)
Introduction to Cryptography (3)
Topics in Combinatoric Graph Theory (3)
Neural Network Learning (3)

■ Careers

Graduates often continue their study of mathematics in graduate school at CNU or other respected universities, both domestic and overseas and pursue academic careers afterwards. Other students pursue careers in quantitative analysis, as middle and high school teachers, researchers, computer programmers, actuaries, derivative specialists, and information security specialists.

Statistics

Contact Information
Phone: +82-62-530-3440
Fax: +82-62-530-3449
E-mail: stat.jnu@gmail.com
URL: http://stat.jnu.ac.kr

What is Statistics?

Statistics is a broad mathematical discipline which studies ways to collect, summarize, and draw conclusions from data. It is applicable to a wide variety of academic disciplines, from physical and social sciences to the humanities, as well as to business, government, and industry.

Once data is collected, either through a formal sampling procedure or by recording responses to treatments in an experimental setting (experimental design), or by repeatedly observing a process over time (time series), graphical and numerical summaries may be obtained using descriptive statistics.

Patterns in the data are modeled to draw inferences about the larger population, using inferential statistics accounting for randomness, and uncertainty in the observations. These inferences may take the form of decision making (hypothesis testing), estimates of numerical characteristics (estimation), prediction of future observations, descriptions of association (correlation), or modeling of relationships (regression).

Major in Statistics

The major in Statistics was founded in 1990 and has made great developments. The Department currently has 10 professors, about 17 graduate students, and 230 undergraduate students. Balanced programs for students have been established so that they learn statistical theory, as well as practice analyzing data with various statistical computer packages. In order to support independent study, the Department provides three rooms exclusively for a Statistics Library and Computing Lab.

The Statistics Library is filled with numerous statistics and computer science books and relevant outstanding papers. The Computing Lab has computers with programs such as SAS, SPSS, Minitab, Python and R. The Department has active research programs in statistical genetics, bio-informatics, Bayesian statistics, statistical computing, pattern recognition and other topics.

Professors

- Young-Sook Son, Ph.D.
  [Professor, ysson@jnu.ac.kr]
  (Time Series Analysis, Data Mining, Bayesian Statistical Inference)
- Jeong-Soo Park, Ph.D.
  [Professor, jspark@jnu.ac.kr]
  (Design and Analysis of Computer Experiments (Simulation), Meteorological Statistics, Educational Statistics, Statistical Computing)
- Jang-Sun Baek, Ph.D.
  [Professor, jbaek@jnu.ac.kr]
  (Nonparametric Function Estimation,

Multivariate Analysis, Bioinformatics, Pattern Recognition)

- Il-Su Choi, Ph.D.
  [Professor, ichoi@jnu.ac.kr]
  (Bayesian Statistics (MCMC), Mathematical Biology, Environmental Ecology Statistics)
- Myung-Wan Na, Ph.D.
  [Professor, nmh@jnu.ac.kr]
  (Reliability Theory, Statistical Quality Control, Probabilistic Finite Element Method, Probabilistic Safety Assessment)
- Eun-Sik Park, Ph.D.
  [Professor, espark02@jnu.ac.kr]
  (Longitudinal/Categorical Data Analysis, Statistical Methods in Medical Research, Clinical Trials, Bioinformatics)
- Min-Soo Kim, Ph.D.
  [Professor, kimms@jnu.ac.kr]
  (Multivariate Analysis, Image Partition or Searching, Financial Statistics)
- Jae-sik Jeong, Ph.D.
  [Associate Professor, jjs3098@jnu.ac.kr]
  (Bioinformatics (Metabolomics, Genomics), Biostatistics (clinical trials), Bayesian analysis)
- Bong-Gyun Ko, Ph.D.
  [Assistant Professor, bonggyun.ko@jnu.ac.kr]
  interpretative public intelligence
- Jeong-Gyu Huh, Ph.D.
  [Assistant Professor, huhjeonggyu@jnu.ac.kr]
  Machine-learning-based financial engineering

■ Degree Requirements

Students are required to earn 130 credits, with 15 credits from core courses, 33 credits from electives, 9 credits from core general education courses, and 16 credits from general electives.

Students are also required to write a graduation thesis or get a certificate of qualification.

■ What Do You Study?

▮ General Education Core Courses

Writing
English for Global Communication 2
Introduction to Statistics and Practice
Scientific Investigation of Big Data
Career design and self-understanding

Year 1 Courses

▮ Electives

Statistical Mathematics 1
Statistical Mathematics 2
Population and official statistics
Statistics package and Practice

Year 2 Courses

▮ Core Courses

Mathematical Statistics 1
Mathematical Statistics 2

▮ Electives

Financial statistics and Practice
Big Data programming and practice
Sampling Survey Method Theory
Financial derivatives Modeling
Big Data Process and Practice
Design of Experiments
Statistical Computation and Practice

Year 3 Courses

▮ Core Courses

Regression Analysis and Lab
Multiplicate Statistical Analysis
Statistical Learning and Practice

▮ Electives

Categorical Data Analysis

Bayesian Statistics and Practice
Market risk management
Credit risk management
Statistical Quality Control and Lab(capstone design)
Data Mining and Lab
Big Data analysis and Practice

Year 4 Courses

▮ Electives

Time Series Analysis and Lab
Spatial Data analysis and Practice
Big data Capstone design
Theory of Financial Instruments
Theory of Biomedical Statistics
Statistical Data analysis and Practice
Probability and Stochastic Process

Minor Courses

Mathematical Statistics 1
Mathematical Statistics 2
Regression Analysis and Lab

■ Careers

Students may seek employment in a number of companies, including major conglomerates, statistical package development firms, life insurance companies, banks, research firms, and the civil service.

Physics

Contact Information
Phone: +82-62-530-3350~1
Fax: +82-62-530-3369
URL: http://physics.jnu.ac.kr/

What is Physics?

Physics may be seen as the most basic science in seeking the fundamental laws in nature. It involves the study of all natural phenomena to discover the laws of nature. The field also considers wide applications to other natural sciences, engineering, medical sciences, agricultural sciences, and even to social sciences, and serves as a source of high technologies.

Department of Physics at Chonnam National University

The Department educates students to become professionals. Some key aspects of the Department include:

- 18 experienced faculty members
- Balanced theory and experiment courses
- Intern program with industry
- Support for language program

The Department's advanced resources:

- Up-to-date educational facilities
  - Computer Lab, Audio/Video Classrooms
- Labs for fundamental and applied physics
  - Major Equipment: High Power Laser, Ion Implanter, Low Temperature Cryostat, High Energy Physics
- In-University research facilities
  - NMR, TEM, SEM, Raman, FT-IR, X-ray
  - RIE, Deposition, Lithography, RTA, PECVD

The Department supports international students through the following initiatives:

- Tuition fee exemptions
- Free dormitory support
- TA and RA positions available
- Additional support by supervising professors

Professors

- Chang Sub Kim, Ph.D.
  [Professor, Condensed Matter Theory, cskim@jnu.ac.kr]
- Sun Hyun Youn, Ph.D.

[Professor, Quantum Optics and Nonlinear Optics Experiments, sunyoun@jnu.ac.kr]
- En Jin Cho, Ph.D. [Professor, Condensed Matter Experiments, ejcho@jnu.ac.kr]
- Heung Ryoul Noh, Ph.D. [Professor, Atom Optics, hrnoh@jnu.ac.kr]
- Ki Cheon Kang, Ph.D. [Professor, Mesoscopic Physics, kckang@jnu.ac.kr]
- Sang Wan Ryu, Ph.D. [Professor, Nano-Photonics, sangwan@jnu.ac.kr]
- In Kag Hwang, Ph.D. [Professor, Nano Optics, ikhwang@jnu.ac.kr]
- Han Jin Noh, Ph.D. [Professor, Condensed Matter Experiments, ffnhj@jnu.ac.kr]
- Kyung Kwang Joo, Ph.D. [Professor, High Energy Experiments, kkjoo@jnu.ac.kr]
- Jae Sik Lee, Ph.D. [Professor, Elementary Particle Physics Theory, jslee@jnu.ac.kr]
- Ha Sul Kim, Ph.D. [Professor, Optical Science & III-V Semiconductor, hydenkim@jnu.ac.kr]
- Joong Wook Lee, Ph.D. [Professor, Terahertz Photonics & Plasmonics, leejujc@jnu.ac.kr]
- Dong ho Moon, Ph.D. [Associate Professor, High Energy Experiments, dhmoon@jnu.ac.kr]
- Geol Moon, Ph.D. [Associate Professor, Atom Optics Experiments, cnuapi@jnu.ac.kr]
- SoongGeun Je, Ph.D. [Assistant Professor, Condensed Matter Experiments, gje@jnu.ac.kr]
- Ara Go, Ph.D. [Assistant Professor, Condensed Matter Theory/ Computational Physics, arago@jnu.ac.kr]
- Chan Beom Park, Ph.D. [Assistant Professor, Condensed Particle Physics Theory cbpark@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 48 credits from core courses and 14 credits from general courses. Students must also submit a thesis and demonstrate proficiency with computers and in a foreign language (namely English).

■ What Do You Study?

Core Courses

Physics Laboratory 1 (2)
Mechanics (3)
Physics Laboratory 2 (2)
Electromagnetism 1 (3)
Basic Optics Experiments (2)
Quantum Mechanics 1 (3)
Electromagnetism 2 (3)
Thermal and Statistical Physics 1 (3)
Quantum Mechanics 2 (3)

For a Minor Courses

Mechanics (3)
Electromagnetism 1 (3)
Quantum Mechanics 1 (3)

Electives

Photonics Field Practice 1 (2)
Photonics Field Practice 2 (2)
Field Practice 1 (2)
Mathematical Physics 1 (3)
Seminar in Mathematical Physics 1 (1)
Seminar in Mechanics (1)
Mathematical Physics 2 (3)
Electronic Instrumental Physics (3)
Seminar in Mathematical Physics 2 (1)
Modern Physics 1 (3)
Seminar in Electromagnetism 1 (1)
Seminar in Advanced Mechanics (1)
Advanced Mathematical Physics (3)
Modern Physics 2 (3)
Advanced Mechanics (3)
Seminar in Quantum Mechanics 1 (1)
Seminar in Electromagnetism 2 (1)
Physics with Computers (3)
Seminar in Quantum Mechanics 2 (1)
Seminar in Thermal and Statistical Physics 1 (1)
Optics (3)
Theory of Relativity (3)
Physics Laboratory 4 (2)
Thermal and Statistical Physics 2 (3)
Solid State Physics (3)
Advanced Physics Experiment 1 (2)
Seminar in Special Topics 1 (1)
Colloquium in Physics 1 (1)
Advanced Electro-Optics Laboratory (2)
Applied Optics (3)
Particle Physics (3)
Nuclear Physics (3)
Advanced Physics Experiment 2 (2)
Seminar In Special Topics 2 (1)
Colloquium In Physics 2 (1)
Fundamentals of Optoelectronics (3)

General Courses

General Physics 1 (3)
General Physics 2 (3)
General Physics Laboratory 1 (1)
General Physics Laboratory 2 (1)

Teaching Profession Courses

Physics Education (2)
Research of Physics Teaching Materials and Teaching Methods (2)
A course on Physics Logic and Essay Writing (2)

■ Careers

Graduates often continue their study of physics in graduate school, both domestically and at foreign universities, and pursue careers as researchers at institutes or in academia. Other positions they may qualify for including government officers, science teachers, and employees in photonics-related industries, semiconductor firms, Korea Electric Power, nuclear power plants, and the Center of Aviation and Space Technology.

Chemistry

Contact Information
Tel: +82-62-530-3370
Fax: +82-62-530-3389
URL: http://chem.jnu.ac.kr/

What is Chemistry?

Chemistry is an experiment-based science. Thousands of scientists have made millions of experimental observations over several hundred years. From these observations, fundamental principles have been deduced regarding the properties and reactivity of matter. Skills and methods used by chemists are applicable to other facets of life, and can help to solve practical problems.

School of Chemistry at Chonnam National University

The Department of Chemistry consists of a prominent group of scientists, both faculty and students, who engage in a broad range of chemical, educational, and research activities. The faculty is dedicated to chemical education and prides itself on its graduate and undergraduate programs, which are designed to prepare students for active careers in industry and academia. Knowledge of chemistry is developed through intensive coursework, laboratory experiments, literature, and individual research efforts. This increases the chances for students to demonstrate their abilities for creative and innovative studies in various industries and research institutes after graduation. The Department is open to everyone who has a passion for chemistry.

Professors

- Hyoung-Ryun Park, Ph.D. [Professor, Inorganic Chemistry, hrpark@jnu.ac.kr]
- Jae-Nyoung Kim, Ph.D. [Professor, Organic Chemistry, kimjn@jnu.ac.kr]
- Jong-Hoon Oh, Ph.D. [Professor, Organic Chemistry, jnoh@jnu.ac.kr]
- Che-Hun Jung, Ph.D. [Professor, Biochemistry, jungch@jnu.ac.kr]
- Sun-Woo Lee, Ph.D. [Professor, Organic Chemistry, sunwoo@jnu.ac.kr]
- Jeong-Sun Kim, Ph.D. [Professor, Biochemistry, jsunkim@jnu.ac.kr]
- Hyun-Dam Jeong, Ph.D. [Professor, Physical Chemistry, hdjeong@jnu.ac.kr]
- Hyun-Chul Choi, Ph.D. [Professor, Analytical Chemistry, chc12@jnu.ac.kr]
- Jun-seong Lee, Ph.D. [Professor, Inorganic Chemistry, leespy@jnu.ac.kr]
- Cheol-Won Lee, Ph.D. [Professor, Biochemistry, cwlee@jnu.ac.kr]
- Sung Cho, Ph.D. [Professor, Physical Chemistry, scho@jnu.ac.kr]
- Jimin Kim, Ph.D.

[Associate Professor, Organic Chemistry, jiminkim@jnu.ac.kr]
- Kyungsu Na, Ph.D.
  [Professor, Physical Chemistry, kyungsu_na@jnu.ac.kr]
- Jeongsuk Seo, Ph.D.
  [Associate Professor, Analytical Chemistry, j_seo@jnu.ac.kr]
- Changwoo Kim, Ph.D.
  [Assistant Professor, Physical Chemistry, cwkim66@jnu.ac.kr]
- Jacopo Tessarolo, Ph.D.
  [Assistant Professor, Inorganic Chemistry, jacopo@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 36 credits from core courses, and 19 credits from general courses. Students must also demonstrate proficiency with computers and in a foreign language (English).

■ What Do You Study?

Core Courses

Physical Chemistry 1 (3)
Analytical Chemistry 1 (3)
Analytical Chemistry Lab 1 (1)
Physical Chemistry Lab 1 (1)
Organic Chemistry 1 (3)
Analytical Chemistry Lab 2 (1)
Physical Chemistry Lab 2 (1)
Biochemistry 1 (3)
Inorganic Chemistry 1 (3)
Inorganic Chemistry Lab 1 (1)
Biochemistry Lab 1 (1)
Organic Chemistry Lab 1 (1)
Organic Chemistry Lab 2 (1)
Inorganic Chemistry Lab 2 (1)
General Chemistry 1 (3)
Organic Chemistry 3 (3)
Quantum Chemistry 1 (3)
Synthesis of Organic Materials for Semiconductor (3)
Biochemistry 2 (3)
Biochemistry Lab 2 (1)
Coordination Chemistry (3)
Inorganic Chemistry 2 (3)
Quantum Chemistry 2 (3)
Instrumental Analysis Lab (2)
Advanced Physical Chemistry 1 (3)
Inorganic semiconductor Materials Chemistry (3)
Organic Spectroscopy (3)
Advanced Biochemistry (3)
Instrumental Analytical Methods (3)
Enzymology (3)
General Biology 1 (3)
Chemistry Laboratory 1 (1)
Biology Laboratory 1 (1)
General Chemistry 2 (3)
General Biology 2 (3)
Chemistry Laboratory 2 (1)
Biology Laboratory 2 (1)

Electives

Physical Chemistry 2 (3)
Analytical Chemistry 2 (3)
History of Science (2)
Organic Chemistry 2 (3)
Advanced Physical Chemistry 2 (3)
Organic Synthesis (3)
Environmental Analytical Chemistry (3)

Minor Courses

Physical Chemistry 1 (3)
Organic Chemistry 1 (3)
Inorganic Chemistry 1 (3)
Teaching Profession Courses
Chemistry Education (2)
Research of Chemical Teaching Materials and Teaching Methods (2)

Careers

Most chemistry majors go on to jobs in precision chemistry, semiconductor chemistry, heavy industries, the petrochemical industry, and pharmaceutics.

All major chemical companies send requests for the Department's students throughout the year. Many smaller companies and academic institutions also contact individual faculty members when positions become available.

Such openings are made known to all students, and every effort is made to find suitable jobs for graduates. Strong ties exist between the Department and the chemical industry. Graduates hold industrial or academic positions, or they are employed by the government or research institutes.

Biological Sciences

Contact Information
Phone: +82-62-530-3390
Fax: +82-62-530-3409
URL: http://biology.jnu.ac.kr

What is Biological Sciences?

Biological Sciences (Biology) is the science studying the fundamental phenomena of life. Biology encompasses diverse fields, including botany, zoology, ecology, evolution, genetics, molecular biology, cell biology, physiology, and bioinformatics. The Department of Biological Sciences is committed to advancing our understanding of biological function, and developing new technologies to address current and emerging problems facing all living organisms. In addition to the standard biology program, our faculty provide academically-motivated undergraduate students the opportunity to participate cutting-edge research projects. The department focuses on the integration of research and teaching expertise to create opportunities in the training of future leaders in the filed of biological sciences. Students who successfully complete our excellent curriculum will have knowledge in biology for a graduate or professional career in applied biological sciences, such as biomedical sciences and agriculture. Biology is certainly the leading science in the 21st century.

Department of Biological Sciences

The Department of Biological Sciences offers competitive training programs for undergraduate and graduate students in biological sciences. The department's faculty members (12 professors, 2 adjunct professors, and teaching faculty) are responsible for over 60 courses in modern biology and play leading roles in teaching and research. Faculty interests include: Biochemistry, Biotechnology, Mycology, Molecular Immunology, Cell and Molecular Biology, Plant Physiology, Taxonomy, Biomimetics, Ecology, Restoration Ecology, Economic Botany and Ecotoxicology.

Twelve research laboratories are fully equipped for the pursuit of developing practical knowledge of these fields.

A key goal of the Department of Biological Sciences is to promote the practical experience required for a career in the biological sciences by applying these research tools with our students.

Professors

- Hwang Hee Lee, Ph.D.
  [Professor, Molecular Cell Physiology, blaise@jnu.ac.kr]
- Hak Young Lee, Ph.D.
  [Professor, Phycology, haklee@jnu.ac.kr]
- Eungseok Kim, Ph.D.
  [Professor, Molecular Metabolism,

ekim@jnu.ac.kr]
- Geun-Joong Kim, Ph.D.
  [Professor, Molecular Microbiology, gjkim@jnu.ac.kr]
- Il-Chul Kim, Ph.D.
  [Professor, Functional Genomics, ickim@jnu.ac.kr]
- Ha-Cheol Sung, Ph.D.
  [Professor, Animal Ecology,
- Dong-Ha Nam, Ph.D.
  [Professor, Ecobiochemistry, dongha@jnu.ac.kr]
- Dong-Hyun Lee, Ph.D.
  [Professor, Genomic Stability, donghyunlee73@jnu.ac.kr]
- Eung-Sam Kim, Ph.D.
  [Professor, Cellular Mechabiology, Biomimetics, eungsam.kim@jnu.ac.kr]
- Dong-Hun Lee, Ph.D.
  [Assistant Professor, Animal Physiology, DHUN@jnu.ac.kr]
- Hee-Jin Park, Ph.D.
  [Assistant Professor, Molecular and Cellular Plant Physiology, hjpark_bio@jnu.ac.kr]
- Ji-Hoon Lee, Ph.D.
  [Associate Professor, Biochemistry and Cell Biology, microljh@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 11 credits from general courses, 15 credits from core courses, and 33 credits from electives. Students are also required to write a graduation thesis.

■ What Do You Study?

Core Courses

Cell Biology (3)
General Microbiology (3)
Introduction to Ecology (3)
Bioinformatics & Experiment (3)
Molecular Biology (3)

Electives

Biodiversity and evolution (3)
Introduction to Systems Biology (3)
Aquatic Biology (3)
Toxicobiology (3)
Wildlife Conservation and Management and Exp. (3)
Ecological modeling and Exp. (3)
Ecological census methods and Exp. (3)
Phycology (3)
Animal Taxonomy (3)
Plant Morphology (3)
Plant Taxonomy (3)
Entomology (3)
Microbial Physiology (3)
Molecular Physiology (3)
Plant Physiology (3)
Animal Physiology (3)
Immunology (3)
Molecular Genetics Lab. (2)
Experimental Biology 1 (3)
Experimental Biology 2 (3)
Molecular Biotechnology (3)
Developmental Biology (3)
Fungal biology (3)
Restoration Ecology and Exp. (3)
Food Microbiology and Practice (3)
Nanobiology and Design of Nanobiosystems (3)
Phylogenetic Systematics and Practice (3)
Environmental Biology (3)
Resource Biology (Capstone Design) (3)
Comparative Genomics (3)
Methods in Biostatistics and Exp. (3)
Biomimetics (3)
Organic Chemistry (3)
Biological Chemistry 1 (3)

Biological Chemistry 2 (3)
Genetics (3)
Biology Education (3)
A Research Of Biology Teaching Materials & Teaching Method (3)
A Course on Biology Logic and Essay Writing (2)

General Courses

General Chemistry 1 (3)
Biology Laboratory 1 (1)
Biology Laboratory 2 (1)
General Biology 1 (3)
General Biology 2 (3)

Minor Courses

Cell Biology (3)

Minor Electives

21 credits must be chosen

■ Careers

Graduates may pursue careers in bioindustries, education, biotechnology firms, natural history museums, and research institutes.

Geological Sciences

Contact Information
Phone: +82-62-530-3450
Fax: +82-62-530-3459
URL: http://geology.jnu.ac.kr

What is Geology?

Geology is the scientific study that aims to understand the origin, structure, physical, biological and chemical processes, and history of the Earth and its surface features using diverse scientific and engineering methods. The sustainable use of natural resources and the preservation of the Earth's environment require a sound knowledge of geology and geological processes. In order to solve these problems, geologists study a broad range of issues such as the origin and genesis of rocks constituting the Earth, the structural process and evolutional history of the Earth, the exploration of Earth's resources, and the mitigation of natural hazards. The studies of modern geology are not restricted to traditional topics because the origin, migration, and quality of ground-water, and soil contamination and remediation are also topics in geology. Therefore, geology is more of an applied science than a simple one, which requires basic knowledge of physics, chemistry, biology, and mathematics.

Throughout history, geology has provided practical information for bettering our lives and is believed to play a key role in the development of a sustainable society that is in harmony with the Earth.

Department of Geology

The Department of Geology provides an outstanding environment for studies of the Earth and planetary processes, as revealed by their composition, structure, and history. The department seeks to understand the fundamental processes defining the origin, evolution, and current state of Earth systems and to use this understanding to predict future states to solve environmental problems. The department is composed of the following three major research areas:

1) Pure/Basic Geology: conducting broad investigations on Solid Earth: rocks, minerals, and fossils of past and present geological environments and predicting the future.

2) Applied Geology: geological and seismological studies of practical issues related with the geological stability of a critical structure, such as a nuclear power plant or nuclear waste disposal.

3) Environmental Geology: practical application of the principles of geology in solving environmental problems, such as soil and ground water contaminations and their remediation.

Specific research encompasses igneous/metamorphic petrology, economic mineral deposits, paleontology, sedimentary environments, environmental hydrogeology, biogeochemistry, geophysics computational geodynamics and Earth materials science including classical mineralogy. The department's programs include

interdisciplinary research and teaching that bring the unique perspective of geology to scientific problems at diverse spatial and temporal scales. The department currently has 8 faculty members.

Currently, the department has 24 graduate students; 162 undergraduate students are majoring in geology.

The department's programs offer courses leading to Bachelor's, Master's, and Doctoral degrees in geology. The department's faculty members, graduate students, and undergraduate students are involved in field, laboratory, experimental, and modeling studies to solve geological and environmental problems.

■ Professors

- Min Huh, Ph.D.
  [Professor, Paleontology, minhuh@jnu.ac.kr]
- In-Wook Yeo, Ph.D.
  [Professor, Environmental Hydrogeology, iwyeo@jnu.ac.kr]
- Yul Roh, Ph.D.
  [Professor, Environmental Soil Science & Geomicrobiology, rohy@jnu.ac.kr]
- Dong-Hoon Sheen, Ph.D.
  [Professor, Seismology & Geophysics, dhsheen@jnu.ac.kr]
- Donghoon Seoung, Ph.D.
  [Associate Professor, Earth Materials Science, dseoung@jnu.ac.kr]
- Tae Soo Chang, Ph.D.
  [Professor, Coastal Geology/Sedimentology, taesoo20@jnu.ac.kr]
- Yi-rang Jang, Ph.D.
  [Assistant Professor, Structural Geology/ Tectonics, yirang@jnu.ac.kr]
- Byung-choon Lee, Ph.D.
  [Assistant Professor, Petrology, leebc@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, with 21 credits from core courses. Students must also submit a thesis and demonstrate proficiency with computers and in a foreign language (English).

■ What Do You Study?

General Courses

General Chemistry 1 (3)
Mathematics 1 (3)
General Physics 1 (3)
General Biology 1 (3)

Core Courses

Introduction to Geology and Lab. (3)
Optical Crystallography and Lab (3)
Structural Geology and Lab. (3)
Seismology and Lab. (3)
Geological Survey and Lab. (3)
Sedimentology and Stratigraphy and Lab. (3)

Elective Courses

Data Analysis in Geology and Practice (3)
Soil Environmentology and Lab (3)
Applied Mathematics for Geologists (3)
Earth History and Lab (3)
Element of Geology and Lab (3)
Environmental Geology and Lab (3)
Geophysics and Lab (3)
Paleontology and Lab (3)
Marine Geology and Lab (3)
Field Geology and Lab (3)
Optical Crystallography and Lab (3)
Seismology and Lab (3)
Micropaleontology and Lab (3)
Hydrogeology and Lab (3)

Structural Geology and Lab (3)
Environmental Geochemistry and Lab (3)
Economic Geology and Lab (3)
Engineering Geology and Lab (3)
Coastal Geology and Lab (3)
Geometric Techniques of Structural Geology and Exercise (3)
Meteorology and Lab (3)
Contaminant Hydrogeology and Lab (3)
Geology of Korea and Exercises (3)
Geochemistry and Lab (3)
Exploration Geophysics and Lab (3)
Geochemical Prospecting and Lab (3)
Quaternary Paleoclimatology & Paleoceanography and Lab (3)
Meteorological Observation and Lab (3)
Applied Mechanics in Geology and Lab (3)
Paleoenvironmentology and Lab (3)
Micrometeorology and Lab (3)
Cultural Heritage Geology (3)
Geomicrobiology and Lab (3)
Resource Geology and Lab (3)
Earth Data Processing and Lab (3)

Teaching Profession Courses

Earth Science Education (2)
Material Evaluation and Teaching Method in Earth Science (2)

■ Careers

Graduates may seek careers with the Korea Institute of Geoscience and Mineral Resources, Korea Ocean Research and Development Institute, Korea Agricultural and Rural Infrastructure Corporation, Korea Water Resources Corporation, Natural Science Museum, Korea National Oil Corporation, Korea Resources Corporation, and Korea Meteorological Administration. Graduates may find positions as curators, educators, and researchers.

Oceanography

Contact Information
Phone: +82-62-530-3460
Fax: +82-62-530-3469
URL: http://oceanography.jnu.ac.kr/

What is a Major in Oceanography?

The Department of Oceanography has 9 full-time faculty members and several part-time lecturers engaged in teaching and research at both postgraduate and undergraduate levels. The Department conducts interdisciplinary research in coastal marine environments, maintains advanced laboratories, seeks public and private research funds, and recruits and retains qualified faculty, staff, and students. It provides an effective learning environment for students who are interested in careers in marine science or related fields, and also for students who are interested in science-based management of contaminated and coastal environments impacted by human development. Faculty research interests range from the ecology of phytoplankton, macro-alga zooplankton and nekton to the biogeochemical cycle of elements and numerical modeling of coastal processes. Graduates from the Department of Oceanography hold many faculty positions in universities and colleges, as well as research positions in industry, private research institutions, national laboratories, and regulatory agencies.

Professors

- Kwang Young Kim, Ph.D.
  [Professor, Marine Ecology, kykim@jnu.ac.kr]
- Byeong-Gweon Lee, Ph.D.
  [Professor, Chemical Oceanography, blee@jnu.ac.kr]
- Myung Gil Park, Ph.D.
  [Professor, Biological Oceanography, mpark@jnu.ac.kr]
- Byoung-Ju Choi, Ph.D.
  [Professor, Physical Oceanography, bchoi@jnu.ac.kr]
- Jee-Hoon Jeong, Ph.D.
  [Associate Professor, Atmospheric Science, jjeehoon@jnu.ac.kr]
- Yoo-Geun Ham, Ph.D.
  [Associate Professor, Atmospheric Science, ygham@jnu.ac.kr]
- Tae-Hoon Kim, Ph.D.
  [Associate Professor, Chemical Oceanography, thkim80@jnu.ac.kr]
- Se Hyeon Jang, Ph.D.
  [Assistant Professor, Biological Oceanography, shjang@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, with 24 credits from general courses, and 36 credits from core courses. Students must also take the following courses:

- Biological Oceanography & lab 1

- Physical Oceanography & lab 1
- Chemical Oceanography & lab 1
- Marine Ecology & lab
- Geological Oceanography & Lab 1
- To graduate, students must submit a thesis or a certificate.

■ What Do You Study?

General Courses

Mathematics 1
General Chemistry 1
General Physics 1
General Biology 1

Core Courses

Biological Oceanography & lab 1 (3)
Physical Oceanography & lab 1 (3)
Chemical Oceanography & lab 1 (3)
Marine Ecology & lab (3)
Geological Oceanography & Lab 1 (3)

Electives

Differential Equation (3)
Physical Oceanography and Lab 1 (3)
Biological Oceanography and Lab 1 (3)
Geological Oceanography and Lab 1 (3)
Chemical Oceanography and Lab 1 (3)
Physical Oceanography and Lab 2 (3)
Biological Oceanography and Lab 2 (3)
Geological Oceanography and Lab 2 (3)
Chemical Oceanography and Lab 2 (3)
Marine Analytical Chemistry and Lab (3)
Oceanological Data Process & Lab (3)
Sedimentology and Lab (3)
Marine Ecology and Lab (3)
Marine Zoology & Lab. (3)
Marine Sedimentology and Lab. (3)
Ecology of Marine Fishes and Lab. (3)
Regional Oceanography (3)
Seawater Analysis and Lab. (3)
Marine Phycology and Lab. (3)
Population Ecology and Lab. (3)
Benthos Ecology and Lab. (3)
Marine Pollution and Lab (3)
Deep-Sea Geology and Lab. (3)
Tide and Waves (3)
Marine Microbiology and Lab. (3)
Fundamentals of Ecotoxicology (3)
Coastal Oceanography (3)
Marine Planktology & Lab 1 (3)
Marine Planktology & Lab 2 (3)
Shipboard training on ocean observations (3)
Marine Molecular Biology & Lab (3)
Atmosphere-Ocean Dynamics and Lab. (3)
Atmosphere-Ocean Numerical Forecasting and Lab. (3)
Climate Dynamics & Climate Change modeling (3)
Coastal Conservation Ecology and Lab (3)
Methods and techniques in ocean observations (3)
Marine Phygical Data Analysis & Practice (3)
Advanced Ocean Science (3)
Marine Biotechnology & Lab (3)
Marine Biogeochemistry & lab. (3)
Atmospheric Physics Lab (3)
Oceangraophic Meteorology and Climate Dynamics & Lab (3)
Marine Ecosystem Modeling and Lab (3)
Climate Big Data Programing & Practice (3)
Satellite Oceanography (3)
Earth system data analysis using AI algorithm (3)

■ Careers

Graduates from the Department of Oceanography hold research positions in industry, private research institutions, and laboratories connected to marine sciences.

School of Biological Sciences and Technology

Contact Information
Tel: +82-62-530-1035
Fax: +82-62-530-2199
URL: http://sbst.jnu.ac.kr

What is Biological Sciences and Technology?

Biological Sciences and Technology is the field of study which explores the principles of life phenomena and applies the results of scientific research to high-tech industries. It is a cutting-edge technology field which strives to promote the health and welfare of humankind, focusing on such diverse fields as medicine, health, pharmaceuticals, food, environment, agriculture, and energy. As a future-oriented industrial field, it promises to create numerous high-value-added industries in the knowledge-based society of the 21st century.

School of Biological Sciences and Technology

Key aspects of the School include:

- Cutting-edge research facilities to support its students' studies and research
- Varied programs to provide BT-related specialization and the possibility to conduct advanced experimentation
- Scholarship programs and a generous system of incentives
- Scholarships made available through the New University Regional Innovation project
- Excellent education delivered by distinguished faculty members, as well as an industry/academia/research collaboration system
- A renowned graduate school
- It is Korea's first independent faculty combining biological science, a basic science, as well as biological engineering, an applied science.

Professors

Major of Biological Science/Major of Systems Biology

- Jaemog Soh, Ph.D.
  [Professor, Genetics,
  jaemsoh@gmail.com]
- Chul-Ho Yun, Ph.D.
  [Professor, Functional Proteomics,
  chyun@jnu.ac.kr]
- Hueng-Sik Choi, Ph.D.
  [Professor, Molecular Endocrinology,
  hsc@jnu.ac.kr]
- YoungChul Lee, Ph.D.
  [Professor, Microbial Genetics,
  yclee@jnu.ac.kr]
- ChangSoo Kim, Ph.D.
  [Professor, Molecular Neurogenetics,
  changgk@jnu.ac.kr]
- Hee-Sae Park, Ph.D.
  [Professor, Molecular Cell Biology,
  proteome@jnu.ac.kr]

- Hyung Sik Kang, Ph.D.
  [Professor, Immunology, kanghs@jnu.ac.kr]
- YoungHee Joung, Ph.D.
  [Professor, Plant Molecular Biology, yhjoung@jnu.ac.kr]
- Won-Seok Choi, Ph.D.
  [Professor, Neurobiology, choiw@jnu.ac.kr]
- Chungoo Park, Ph.D.
  [Professor, Bioinformatics, chungoo@jnu.ac.kr]
- Geupil Jang, Ph.D.
  [Associate Professor, Plant Developmental and Molecular Physiology, yk3@jnu.ac.kr]
- Soo-Jin Yeom, Ph.D
  [Associate Professor, Synthetic Biology, soojin258@jnu.ac.kr]
- Jae Sung Shim, Ph.D.
  [Assistant Professor, Plant Molecular Genetics, jsshim@jnu.ac.kr]
- Hyung Chul Lee, Ph.D.
  [Assistant Professor, Developmental Biology, hyungchul@jnu.ac.kr]

■ Degree Requirements

Students in the major of Biological Science or major of Systems Biology are required to earn 130 credits, with 32 credits from general courses and 48 credits from core courses.

■ What Do You Study?

School of Biological Sciences and Technology

General Studies

General Chemistry 1 (3)
General Chemistry 2 (3)
Chemistry Laboratory 1 (1)
Biology Laboratory 1 (1)
Biology Laboratory 2 (1)
General Biology 1 (3)
General Biology 2 (3)
Total Credits 15

Major Electives

Introduction to Biological Science and Technology (3)
English for Biological Sciences and Technology (3)

Major of Biological Science

Molecular Biology 1 (3)
Plant Physiology (3)
Molecular Biology 2 (3)
Virology (3)
Animal Physiology (3)
Developmental Biology (3)
Cell Biology 1 (3)
Life Science Fundamental Experiments 1 (2)
Cell Biology 2 (3)
General Microbiology 1 (3)
Life Science Fundamental Experiments 2 (2)
Genetics (3)
General Microbiology 2 (3)
Biological Sciences Research 1 (3)
Biological Sciences Research 2 (3)
Cancer Biology (3)
Bioinformatics (3)
Endocrinology (3)
Metabolic Engineering (3)
Cellular Signal Transduction (3)
Introduction to Biomedical Science (3)
Neurobiology (3)
Plant Molecular Biology (3)
Introduction to Brain disease (3)
Bioethics (3)
Methods in Cell Biology (3)
Introduction to History of Biological Sciences (3)
Independent Research 1 (3)

Independent Research 2 (3)
Stem Cell Biology (3)
Biotechnology and Biological Sciences Capstone Design 1 (3)
Biotechnology and Biological Sciences Capstone Design 2 (3)
Immunology1 (3)
Immunology2 (3)
Plant metabolism (3)
Biochemistry 1 (3)
Organic Chemistry (3)
Biochemistry 2 (3)
Molecular Genetics (3)
Methods in Biochemistry and Molecular Biology (3)
Human Physiology (3)

Major of Systems Biology

Molecular Biology 1 (3)
Molecular Biology 2 (3)
Cell Biology 1 (3)
Cell Biology 2 (3)
General Microbiology 1 (3)
Genetics (3)
General Microbiology 2 (3)
Biological Sciences Research 1 (3)
Biological Sciences Research 2 (3)
Biology of Sexuality (3)
Bioinformatics (3)
Genomics (3)
Introduction to Systems Biology (3)
Systems Cell Biology (3)
Protein and Enzyme Engineering (3)
Bioethics (3)
NeuroBiochemistry (3)
Introduction to History of Biological Sciences (3)
Independent Research 1 (3)
Independent Research 2 (3)
Stem Cell Biology (3)
Biotechnology and Biological Sciences Capstone Design 1 (3)
Biotechnology and Biological Sciences Capstone Design 2 (3)
Cell Differentiation (3)
Immunology 1 (3)
Immunology 2 (3)
Introduction to synthetic biology (3)
Introduction to bioenergy (3)
Bio-energy colloquium (3)
Biomedical data analysis and practics (3)
Understanding genetic variation and disease (3)
Biochemistry 1 (3)
Biochemistry 2 (3)
Organic Chemistry (3)
Molecular Genetics (3)
Plant Genetic Engineering (3)
Life Science Fundamental Experiments 1 (2)
Life Science Fundamental Experiments 2 (2)

■ Careers

- graduate school (overseas and domestic)
- medical or dental school
- college of pharmacy
- research institutes: Korea Research Institute of Bioscience and Biotechnology (KRIBB), and Institute for Basic Sciences, etc.
- biotech industry: Samsung Bioepis, Samsung BioLogics, LG Life Sciences Ltd., CJ Bio & Pharma, and Mogam Biotechnology Research Institute, etc.
- bioventures
- pharmaceuticals, cosmetics or food industry
- civil service: medical, pharmaceutical or environmental fields

College of AI Convergence

Contact Information
Phone: +82-62-530-4202~4
Fax: +82-62-530-4209
E-mail: sigma72@jnu.ac.kr
URL: http://cvg.jnu.ac.kr

School of Artificial Intelligence

- Artificial Intelligence Major
- Software Major

Dept. of Big Data Convergence

Dept. of Intelligent Mobility

Major in Robotics Engineering Convergence

Major in Future Energy Engineering Convergence

Major in Big Data Financial Engineering Convergence

Major in IoT Artificial Intelligence Convergence

Intelligent Mobility Convergence Engineering

Majof of Intelligent & Immersive Media Convergence

School of Artificial Intelligence

Contact Information
Phone: +82-62-530-4206
Fax: +82-62-530-4208
URL: http://aisw.jnu.ac.kr

What is School of Artificial Intelligence?

We aim to train intelligent software experts who can lead the future information society. Our students can development various intelligent applications with the knowledge of software engineering. Based on basic mathematical knowledge, the ability to develop intelligent software such as machine learning and deep learning is cultivated. The curriculum includes AI technologies which can be used in various application fields such as image processing and natural language processing. The goal is to nurture professional talents for software, artificial intelligence, and information security required throughout the industry.

Professors

- Hyeong-seok Lim, Ph.D.
  [Professor, hslim@jnu.ac.kr]
  (Algorithm)
- Deok-jai Choi, Ph.D.
  [Professor, dchoi@jnu.ac.kr]
  (Computer Network)
- Soo-hyung Kim, Ph.D.
  [Professor, shkim@jnu.ac.kr]
  (Artificial intelligence)
- Hyuk-ro Park, Ph.D.
  [Professor, Information Retrieval,
  hyukro@jnu.ac.kr]
- Hyung-jeong Yang, Ph.D.
  [Professor, hjyang@jnu.ac.kr]
  (Application software)
- Kyung-baek Kim, Ph.D.
  [Professor, kyungbaekkim@jnu.ac.kr]
  (Distributed Network System)
- Kwang-hoon Choi, Ph.D.
  [Professor, kwanghoon.choi@jnu.ac.kr]
  (Programing Languages & Software Security)
- Hie-yong Jeong, Ph.D.
  [Associate Professor, h.jeong@jnu.ac.kr
  (Intelligence Robotics & Signal Processing)
- Seok-bong, Yoo, Ph.D.
  [Associate Professor, sbyoo@jnu.ac.kr]
  (Visual intelligence,Image and Video Processing)
- Yeong-Jun Cho, Ph.D.
  [Assistant Professor, yj.cho@jnu.ac.kr]
  (computer vision)
- Seung-Won Kim, Ph.D.
  [Assistant Professor, Seungwon.Kim@jnu.ac.kr]
  (AR/VR)
- Tae-June Park, Ph.D.
  [Assistant Professor, taejune.park@jnu.ac.kr]
  (Information Security/Network)

Degree Requirements

Students are required to earn 140 credits, normally over a period of 4 years (8 semesters).

■ What Do You Study?

Artificial Intelligence Major

▮ Core Courses

Introduction to Economics
Computational Thinking for Engineering
Writing in the Natural Sciences and Engineering
Mathematics 1
Technology and Entrepreneurship
Basic Statistics

▮ Electives

Introduction to Engineering Design
Engineering Mathematics 1
Logic Circuits
Discrete Mathematics
C Programming and Practice
Data Communication
Linear Algebra
Web Programing and Practice
Computer System Architecture
Probability and Statistics
Introduction to Data Science
Software System Design
System Programming
Opensource Software
Computer Networks
Linux System
Mobile Application Software
Operating System
AI-System
IoT System
Data Base Systems
Parallel Programming
Compilers
Introduction to Data Mining
Deep Learning
Industry-University Cooperation Project (Capstone Design)
Image Understanding
Knowledge Representation and Reasoning
Robot Operating System
Signals and System
Natural Language Processing
Computer vision
Reinforcement learning
Introduction to Information Retrieval Systems
Speech Recognition
Service Robot
Introduction to Probabilistic Graphical Model

▮ Minor Courses

JAVA Programing and Practice
Algorithms
Artificial Intelligence
Data Structures
Artificial Intelligence Capstone Design

Software Major

▮ Core Courses

Introduction to Economics
Computational Thinking for Engineering
Writing in the Natural Sciences and Engineering
Mathematics 1
Technology and Entrepreneurship
Basic Statistics

▮ Electives

Introduction to Engineering Design
Discrete Mathematics
Logic Circuits
Engineering Mathematics 1
C Programming and Practice
Probability and Statistics
Computer System Architecture
Web Programing and Practice
Linear Algebra
Data Communication
Computer Networks

Artificial Intelligence
Opensource Software
System Programming
Software System Design
Introduction to Data Science
Theory of Programming Languages
Embedded Software
Operating System
Software Engineering
Mobile Application Software
Linux System
Computer Graphics
Compilers
Parallel Programming
Data Base Systems
C++ Programing and Practiece
Industry-University Cooperation Project (Capstone Design)
Software Reverse Engneering
Intelligence Human Computer Interface
Cloud Computing
Information Security
Distributed Systems
Advanced Algorithms
Game Software
Introduction to Computer Simulation
Image Processing
Software Verification
Blockchain Applications
Theory of Computation
Virtual Reality

▮ Minor Courses

JAVA Programing and Practice
Algorithms
Data Structures
Artificial Intelligence
Software Capstone Design

Department of Big Data Convergence

__Contact Information
Phone: +82-62-530-3440
Fax: +82-62-530-3449
URL: http://bigdata.jnu.ac.kr

What is Dept. of Big Data Convergence?

Students learn breadth of knowledge that data scientists should have: (1) learn how to handle and how to analyse big data in various fields (2) learn to understand complex problem in the context of Big Data (3) learn to predict statistical model beforehand and to provide appropriate solution.

Professors

- Jaesik Jeong, Ph.D.
  [Associate Professor, Bioinformatics (Metabolomics, Genomics), Biostatistics (clinical trials), Bayesian analysis, jjs3098@jnu.ac.kr]
- IlSu Choi, Ph.D.
  [Professor, Bayesian Statistics (MCMC), Mathematical Biology, Environmental Ecology Statistics, ichoi@jnu.ac.kr]
- Min-Kyu Kwak, Ph.D.
  [Professor, Analysis, mkkwak@jnu.ac.kr]
  Partial Differential Equations,
  Ordinary Differential Equations,
  Dynamical Systems
- Byeong-Chun Shin, Ph.D.
  [Professor, Applied Mathematics, bcshin@jnu.ac.kr]
  Numerical Analysis
- Hong-Sung Jin, Ph.D.
  [Professor, Applied Mathematics, hjin@jnu.ac.kr]
  Uniform Superconvergence Wavelets
- MinSoo Kim, Ph.D.
  [Professor, Multivariate Analysis, Image Partition or Searching, Financial Statistics. kimms@jnu.ac.kr]
- Hyun-Cheul Lim, Ph.D.
  [Associate Professor, limhc@jnu.ac.kr]
  Financial Mathematics
- BongGyun Ko, Ph.D.
  [Associate Professor, interpretative public intelligence, bonggyun.ko@jnu.ac.kr]
- Jeong-Gyu Huh, Ph.D.
  [Assistant Professor, huhjeonggyu@jnu.ac.kr]
  Machine-learning-based financial engineering
- Kwangmin Lee, Ph.D.
  [Assistant Professor, Baysian Statistics, klee564@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

General Education Core Courses

Introduction to Statistics
Scientific exploration of Big Data
Career design and self-understanding
Big data based Investment

Year 1 Courses

▮ Core Courses

Introduction to Programming

▮ Electives

Mathematics for big data 1
Mathematics for big data 2
Big data programming
Statistical package and practice

Year 2 Courses

▮ Core Courses

Machine Learning
Mathematical Statistics 1
Mathematical Statistics 2

▮ Electives

Exploratory Data Analysis
Big data Computing
Survey Sampling
Statistical deep learning
Statistical Computation and Simulation
Financial Statistics
Experimental Design

Year 3 Courses

▮ Core Courses

Applied Deep Learning
Big data Analysis and Practice

▮ Electives

Regression Analysis and Lab.
Bayesian statistics and Practice
Big data Algorithm
Survival Analysis
Statistical Network
Multivariate Data Analysis and Practice
Data Mining and Practice
Categorical Data Analysis
Financial Statistics and Practice
Database System
Statistical Optimization

Year 4 Courses

▮ Electives

Time Series Data Analysis and Lab
Numerical Analysis of Big data
Big data Capstone design
Stochastic Process
Statistical Data Analysis and Practice
Biomedical Big Data Modeling
Big data Treatment and Practice

Minor Courses

Mathematical Statistics 1
Mathematical Statistics 2
Regression Analysis and Lab

Dept. of Intelligent Mobility

Contact Information
Phone: +82-62-530-4205
Fax: +82-62-530-4208
URL: http://imob.jnu.ac.kr

What is Dept. of Intelligent Mobility ?

Intelligent mobility, the core of the 4th industrial revolution, refers to futuristic vehicles and transportation means, which incorporates multidisciplinary subjects from mechanical, electrical, computer science, and material engineering. Eco-friendly vehicles, autonomous driving, smart communication and security, sensors and control are the main core of this interdisciplinary department, as well as fundamental vehicle and mobility dynamics.

The goal of this program is to educate students for future vehicles and mobility by strengthening basic core theories and comprehensive design subjects. The program is aiming to increase students' R&D and design capabilities and the field adaptability by implementing advanced curriculum and operating field-tailored experiments.

In addition, this department is participating in the Gwangju BitGreen Industry-university joint research program which provides the unique, creative, and industry-oriented education and research opportunities for students to be prepared for the related fields.

Professors

- Daeyong Kim, Ph.D.
  [Professor, Structures Design, Manufacturing, Mechanics of Materials, daeyong.kim@jnu.ac.kr]
- Gyuhae Park, Ph.D.
  [Professor, Smart Material/sensor/actuator, gpark@jnu.ac.kr]
- Chunhwan Lee, Ph.D.
  [Professor, Powertrain Control, chunhwan@jnu.ac.kr]
- Chansoo Kim, Ph.D.
  [Assistant Professor, Autonomous driving, chansoo.kim@jnu.ac.kr]
- Yong Min, You, Ph.D.
  [Associate professor, [Electric vehicles, Electric machines, ym.you@jnu.ac.kr]
- Wonoh Lee, Ph.D.
  [Professor, Composite Materials / Mechanics of Inelastic Materials, wonohlee@jnu.ac.kr]
- Woohyun kim, Ph.D.
  [Associate Professor, Modeling, analysis and control of thermal systems,
- Moon, Chang-bae, Ph.D.
  [Associate Professor, Mobile Robot / Autonomous Vehicle, cbmoon@jnu.ac.kr]
- Byung-Chul Choi, Ph.D.
  [Professor, Combustion Engineering, Technology for Engine After-treatment, bcchoi @jnu.ac.kr]
- Hyun Wook Kang, Ph.D.
  [Professor, Micro Fluidics, Nano Technology and System kanghw@jnu.ac.kr]
- Jinsoo Park, Ph.D.
  [Assistant Professor, Microfluidics /

Flow Visualization, jinsoopark@jnu.ac.kr]
- Jaehyung Park, Ph.D.
  [Professor, Network Technology,
- Myoungjin Lee, Ph.D.
  [Professor, Semiconductor device & Circuit design, mjlee@jnu.ac.kr]
- Sungjune Baek, Ph.D.
  [Professor, Digital Signal Processing,
- Lee, Joon-Woong, Ph.D.
  [Professor, Computer Vision & Software Development for Autonomous Vehicles, joonlee@jnu.ac.kr]
- Kyeong-Hwan Lee, Ph.D.
  [Professor, Sensors and Intelligent Biosystems, khlee@jnu.ac.kr]
- Seol, Seoung-Yun, Ph.D.
  [Professor, Thermal fluid system, syseol@jnu.ac.kr]
- Kang, Bo-Seon, Ph.D.
  [Professor, Fluid dynamics, bskang@jnu.ac.kr]
- Yang, Young-Soo, Ph.D.
  [Professor, Laser material processing, ysyang@jnu.ac.kr]
- Hong, Soonwook, Ph.D.
  [Assistant Professor, Laser physics, ysyang@jnu.ac.kr]
- Han, Seunghwoi, Ph.D.
  [Assistant Professor, Laser physics,, ysyang@jnu.ac.kr]
- Jin-Sul Kim, Ph.D.
  [Professor, Multimedia QoS/QoE, Edge Computing, Intelligence Virtual Platform, IT Convergence Technologies, Deep Learning, jsworld@jnu.ac.kr]

■ Degree Requirements

The undergraduate programs are designed to help students develop the capability needed to meet the challenges of the modern technological society in Dept. of Intelligent Mobility Students are required to complete at least 140 credit hours which normally takes four years of full-time study. Students are also able to enrolled in double majors or minors as a means of broadening the scope of their studies.

■ What Do You Study?

▮ Core Courses

Mathematics 1
Mathematics 2
General Physics 1
General Physics 2
Basic Physics Experiments 1
Basic Physics Experiments 2

▮ Required Courses

Solid Mechanics
Dynamics
Autonomous Driving for Mobility 1
Electromagnetic Fields and Energy Conversion
Mobility Seminar 1
Mobility Experiments 1
Mobility Experiments 2

▮ Electives

Introduction to Automotive Engineering
Statics
Basics of Computer Programming
Object-Oriented Programming
Engineering Mathematics 1
Mechanical Drawing
Electric Circuit
Engineering Mathematics 2
Computing System
Data Structures and Algorithms

Electronic Circuit
Mechanical Design
Microprocessor
Numerical Analysis
Artificial Intelligence
Power Electronics
Vehicle NVH
Perception System for Mobility
Electronic System for Mobility
Network System for Mobility
Finite Element Method
Control Engineering
Automotive Sensors and Measruement Engineering
Creative Engineering Design
CAD/CAM with Practice
Mobility Seminar 2
Operating System for Mobility
Power Conversion System for Mobility
Mobility Capstone Design1
Navigation System for Mobility
Vehicle Electronics System and Control
Vehicle Dynamics
Automotive Manufacturing Processes
Mobility Service
Mobility and Energy
Autonomous Driving for Mobility 2
Mobility Capstone Design2
Embeded System
Introduction to Automotive Design
Vehicle Powertrain System

Major in Robotics Engineering Convergence

Contact Information
Phone: +82-62-530-4205
Fax: +82-62-530-4208
URL: http://cvg.jnu.ac.kr

What is Major in Robotics Engineering Convergence?

The Major in Robotics Engineering Convergence aims for fostering talent to apply robotics, the leading technology of the 4th industrial revolution, to future industries and life where a new paradigm is required and to answer various engineering problems.

The Major in Robotics Engineering Convergence offers students a multidisciplinary education, allowing them to develop convergent systems by learning the fundamentals of robotics such as mechanical, electrical, electronic, and computer systems, and non-engineering disciplines such as design, marketing, and cultural contents.

Professors

- Doyeon Bang, Ph.D.
  [Associate Professor, Soft Robotics, 4D Printing, bjkang8204@jnu.ac.kr]
- Seong-Yong Ko, Ph.D.
  [Professor, Medical Robotics, Service Robotics, sko@jnu.ac.kr]
- Chang-Sei Kim, Ph.D.
  [Associate Professor, Dynamics and Control, Biomedical System, ckim@jnu.ac.kr]
- Moon, Chang-bae, Ph.D.
  [Associate Professor, Mobile Robot / Autonomous Vehicle, cbmoon@jnu.ac.kr]
- Byungjeon Kang, ph.D
  [Assistant Professor, Microrobot and Micromanipulation for biomedical applications, bjkang8204@jnu.ac.kr]
- Eunpyo Choi, Ph.D.
  [Associate Professor, Medical micro/nano robotics, eunpyochoi@jnu.ac.kr]
- Lee, Jae Yeol, Ph.D.
  [Professor, HCI Design, jaeyeol@jnu.ac.kr]
- Hyoung Il Son, Ph.D.
  [Professor, Human-Centered Robotics and Automation, hison@jnu.ac.kr]
- Ayoung Hong, Ph.D.
  [Assistant Professor, Autonomous Intelligent Robotics, ahong@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

Core Courses

Basic Statistics
English for Global Communication 1
Artificial Intelligence Basics
General Physics 1

Electives

Engineering Mathematics 1

Mechanical drawing
Kinematics of Mechanisms
Logic Circuits
Introduction of Electricity and Electronics
Object-Oriented Programming
Engineering Mathematics 2
Mechatronics
Measurement Engineering
Machine Learning
Biosystems Modeling and Practice
System Dynamics and Signal Processing
Knowledge Engineering
Computer Graphics
Biosystems Robotics
Control Engineering
Intelligent Vehicle
Human Interface Engineering
Robot Operating System
Microrobot
Biosystem Measurements
Mechanical Vibrations
Applied Robotic Systems
Advanced Microrobotics
Intelligent Soft Robots
Introduction to MEMS (MicroElectroMechanical Systems)

▮ Minor Courses

Applied Calculus
Dynamics
C Programming & Practice
Robot Engineering
Robotics Practice 1
Robotics Practice 2

Major in Future Energy Engineering Convergence

Contact Information
Phone: +82-62-530-4205
Fax: +82-62-530-4208
URL: http://cvg.jnu.ac.kr

What is Major in Future Energy Engineering Convergence?

As directly linked to the survival of humankind, future energy is one of the most important issues in the 21st century. Since the future energy industry evolves from the facility-centered to the knowledge-based industry, the Major in Future Energy Engineering Convergence fosters talent to lead industrial sites where the convergence between disciplines rapidly proceeds.

The Major in Future Energy Engineering Convergence aims for answering field problems beyond basic studies, broadening its horizons into practical energy and in-depth technology studies, and exploring global energy technologies encompassing different disciplines and regions.

Professors

- Sung-Yong Cho, Ph.D.
  [Professor, Eco-Energy and Air Pollution Engineering, syc@jnu.ac.kr]
- Ho-Young Jung, Ph.D.
  [Professor, Environmental Energy Materials, jungho@jnu.ac.kr]
- Sung-June Cho, Ph.D.
  [Professor, Production and Storage of Methane and Hydrogen, sjcho@jnu.ac.kr]
- Chang-Hyun Ko, Ph.D.
  [Professor, Synthesis and Catalytic, Application of Inorganic Materials, chko@jnu.ac.kr]
- Young-Si Jun, Ph.D.
  [Associate Professor, Photocatalysis, Polymer semiconductors
- Seung-Hoon Han, Ph.D.
  [Professor, Architectural Planning & Design, hshoon@jnu.ac.kr]
- Sang-Yun Yun, Ph.D.
  [Professor, Power System, drk9034@jnu.ac.kr]
- Dong-Hee Kim, Ph.D.
  [Associate Professor, Energy Mechatronics, kimdonghee@jnu.ac.kr]
- In-Ho Park, LL.M.
  [Professor, Commercial Law, ihpark12@jnu.ac.kr]
- Eun-Hee Kim, Ph.D
  [Professor, Technology Management, eheekim@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

Core Courses

Understanding of Science History
English for Global Communication 1
General Physics 1
General Chemistry 1

Electives

Crystal Structures and Defects
Renewable Energy
Energy Science and Technology
Organic Chemistry 1
Materials Science
MATLAB Programing
Chemical Process Calculation 2
Physical Chemistry 2
Energy and Intellectual Property
Organic Chemistry 2
Environmental Reaction and Design Engineering
Introduction to IT Convergence Engineering
Solid State Chemistry
Coping Engineering with Air Pollution and Climate Change
Design of Combustion Facilities
Electrochemistry
Chemistry of Interface
Inorganic Materials
Energy Storage System Engineering
Convergence Materials Testing
Electrical Energy Storage Systems
Management of Technology and Innovation
Capstone for new energy industry and IP convergence
Capstone for future energy and SW convergence
Environmental Electrochemistry
Technology Management
Capstone for future energy and ICT convergence
Power Distribution System Engineering
Recent technical trends in Smart Grid
Energy Materials
Materials Electrochemistry
Power System Operation Practice

Minor Courses

Chemical Process Calculation 1
Physical Chemistry 1
The next-generation electricity system engineering 1
The next-generation electricity system engineering 2
Smart Power System Engineering1
Environmental Energy Engineering and Practice

Major in Bigdata Financial Engineering Convergence

Contact Information
Phone: +82-62-530-4206
Fax: +82-62-530-4208
URL: http://cvg.jnu.ac.kr

What is Major in Bigdata Financial Engineering Convergence?

Students learn breadth of knowledge that data scientists should have: (1) learn how to handle and how to analyse financial bigdata (2) learn to understand complex financial problem in the context of financial engineering (3) learn how to solve the complex problem (4) learn to predict contemporary financial risk beforehand and to provide corresponding solution.

Professors

- JangSun Baek, Ph.D.
  [Professor, Nonparametric Function Estimation, Multivariate Analysis, Bioinformatics, jbaek@jnu.ac.kr]
- IlSu Choi, Ph.D.
  [Professor, Bayesian Statistics (MCMC), Mathematical Biology, Environmental Ecology Statistics, ichoi@jnu.ac.kr]
- MinSoo Kim, Ph.D.
  [Professor, Multivariate Analysis, Image Partition or Searching, Financial Statistics. kimms@jnu.ac.kr]
- Jaesik Jeong, Ph.D.
  [Associate Professor, Bioinformatics (Metabolomics, Genomics), Biostatistics (clinical trials), Bayesian analysis, jjs3098@jnu.ac.kr]
- BongGyun Ko, Ph.D.
  [Associate Professor, interpretative public intelligence, bonggyun.ko@jnu.ac.kr]
- Jeong-Gyu Huh, Ph.D.
  [Assistant Professor, Machine-learning-based financial engineering, huhjeonggyu@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

Core Courses

Scientific thinking with big data
Understanding of Practical Finance
Introduction to Statistics and Practice
Bigdata programming and practice
Exploratory Data Analysis
C Programming & Practice
JAVA Programing and Lab.
Econometrics
Quantitative Analysis for beginning
Big Data Process and Lab
Money and Banking

Electives

Management Information and Big Data
Financial Statistics and Practice
Financial Mathematics for beginner

C++ Programing and Lab.
Finance and Banking Economics
Financial Derivatives Modeling
Data Base Systems
Bigdata Financial Modeling 1
Regression Analysis and Lab.
International Finance
International Finance Management
Financial Market Analysis
Machine Learning Introduction
Multiplicate Statistical Analysis and Lab.
Data Mining and Lab.
Digital Economics
Economics of Insurance
Insurance
Bigdata Financial Modeling 2
Big Data Analysis and Lab
Big Data Statistical Analysis
Web Programing and Lab.
Advanced Artificial Intelligence
Financial Institution Management
Financial practice
Finance Programming
Deep Learning Principles and Exercises
Big data Capstone design
Time Series Analysis and Lab.
Market risk management
Artificial Intelligence
Exploratory Bigdata Analysis
Financial Practice Capstone Design
Credit risk management
Stock Market Statistical Analysis
Options, Futures, And Other Derivatives

▮ Minor Courses

Macroeconomic Theory
Microeconomic Theory
Mathematical Statistics 1
Mathematical Statistics 2
Financial Management
Investment Theory
Investment Theory

Major in IoT Artificial Intelligence Convergence

Contact Information
Phone: +82-62-530-4206
Fax: +82-62-530-4208
URL: http://cvg.jnu.ac.kr

What is Major in IoT Artificial Intelligence Convergence?

For the purpose of training students as AI convergence talents, this major provides the fundamentals of Artificial Intelligence(AI) in the era of the fourth industrial revolution such as Deep learning and the applied AI technologies specialized for various industries including Internet of Things (IoT).

Professors

- Soohyung Kim, Ph.D.
  [Professor, shkim@jnu.ac.kr]
  (Artificial intelligence)
- Hyungjeong Yang, Ph.D.
  [Professor, hjyang@jnu.ac.kr]
  (Application software)
- Kyungbaek Kim, Ph.D.
  [Professor, kyungbaekkim@jnu.ac.kr]
  (Distributed Network System)
- DongHan Ham, Ph.D.
  [Professor, dhham@jnu.ac.kr]
  (Knowledge Service Engineering & Human Computer Interaction)
- Kwanghoon Choi, Ph.D.
  [Professor, kwanghoon.choi@jnu.ac.kr]
  (Programing Language & compiler)
- Hieyong Jeong, Ph.D.
  [Associate Professor, h.jeong@jnu.ac.kr
  (Intelligence Robotics & Signal Processing)
- SunYong Yoo, Ph.D.
  [Assistant Professor, intelligence information system, syyoo@jnu.ac.kr]
- HyunDuck Choi, Ph.D.
  [Assistant Professor, ducky.choi@jnu.ac.kr]
  (Next Generation Intelligent Control)
- Seokbong, Yoo, Ph.D.
  [Associate Professor, sbyoo@jnu.ac.kr]
  (Visual intelligence, Image and Video Processing)
- YeongJun Cho, Ph.D.
  [Assistant Professor, yj.cho@jnu.ac.kr]
  (computer vision)
- MyungHwan Na, Ph.D.
  [Professor, nmh@chonnam.ac.kr]
  (Artificial Intelligence Bigdata Analysis)
- SeulGi Joung, Ph.D.
  [Assistant professor, sgjoung@jnu.ac.kr]
  (Optimization under uncertainty & Applications of OR)
- SeungWon Kim, Ph.D.
  [Assistant Professor, Seungwon.Kim@jnu.ac.kr]
  (AR/VR)
- TaeJune Park, Ph.D.
  [Assistant Professor, taejune.park@jnu.ac.kr]
  (Information Security/Network)

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

Core Courses

Computational Thinking for Engineering
Intellectual Property Right
Introduction to Statistics and Practice

Electives

Linux System
Discrete Mathematics
Artificial Intelligence based projects
Artificial Intelligence Mathematics 1
JAVA Programing and Lab.
Seminar1
Artificial Intelligence design project
Artificial Intelligence Mathematics 2
Information Systems Analysis and Design
C++ Programing and Lab.
Data Base Systems
Design Engineering
Problem Solving Project
Seminar2
Operating System
Network Programming
Big Data Statistical Analysis
Algorithms
Web Programing and Lab.
Cognitive science and system
IoT Stream Data Analysis
Advanced Artificial Intelligence
Digital Image Processing
Deep Learning Principles and Exercises
Computer & Networks Security
IoT Case Study
Mobile Application Software
Smart Grid
Pattern Recognition
Field Practice

Minor Courses

C Programming & Practice
Open Source SW Development Theory
Data Structures
Theory of Software Engineering
Machine Learning Introduction
Artificial Intelligence Convergence Project(Capstone Design)

Intelligent Mobility Convergence Engineering

Contact Information
Phone: +82-62-530-4205
Fax: +82-62-530-4208
URL: http://cvg.jnu.ac.kr

What is Major in Intelligent Mobility Convergence Engineering?

Intelligent mobility, the core of the 4th industrial revolution, refers to automobiles and transportation means incorporating artificial intelligence. Eco-friendly vehicles are developing into high-efficiency and smart automobiles. For this purpose, eco-friendly powertrain and functional composite materials, electronic, Exploring not only the core of computer and electrical engineering, but also convergence disciplines widely related to engineering

Professors

- Chunhwan Lee, Ph.D. [Professor, Control Powertrain System Control& Vehicle Dynamic Modeling & chunhwan@jnu.ac.kr]
- Gyuhae Park, Ph.D. [Professor, Smart Material/sensor/actuator, gpark@jnu.ac.kr]
- Lee, Wonoh, Ph.D. [Associate Professor, Composite Materials / Mechanics of Inelastic Materials]
- Chansoo Kim, Ph.D. [Assistant Professor, Autonomous driving, chansoo.kim@jnu.ac.kr]
- Woohyun kim, Ph.D. [Assistant Professor, Modeling, analysis and control of thermal systems]
- Moon, Chang-bae, Ph.D. [Assistant Professor, Mobile Robot / Autonomous Vehicle, cbmoon@jnu.ac.kr]
- Hyun Wook Kang, Ph.D. [Professor, Micro Fluidics, Nano Technology and System, kanghw@jnu.ac.kr]
- Jinsoo Park, Ph.D. [Assistant Professor, Microfluidics / Flow Visualization, jinsoopark@jnu.ac.kr]
- Jaehyung Park, Ph.D. [Professor, Network Technology]
- Myoungjin Lee, Ph.D. [Professor, Semiconductor device & Circuit design, mjlee@jnu.ac.kr]
- Sungjune Baek, Ph.D. [Professor, Digital Signal Processing]
- Lee, Joon-Woong, Ph.D. [Professor, Computer Vision & Software Development for Autonomous Vehicles, joonlee@jnu.ac.kr]
- Kyeong-Hwan Lee, Ph.D. [Professor, Sensors and Intelligent Biosystems, khlee@jnu.ac.kr]

Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

What Do You Study?

Core Courses

General Physics 1
C Programming

Electives

Thermodynamics
Circuit Theory 1
Engineering Mathematics 1
Basics of computer programming
Renewable Energy
Solid Mechanics
Fluid Mechanics
Signals and System Engineering
Electronic Circuit 1
Application of C Programming
Dynamics
Numerical Analysis
Precision Agricultural Engineering
Control Engineering
Computing Algorithm
Measurement Engineering
Fuel and Combustion Engineering
Heat Transfer
System Dynamics and Signal Processing
Smart Automobile & IoT
Mechanical Vibrations
Advanced Computer Programming & Practice
Digital Image Processing
Mobile Communication System
Artificial intelligence and applications
Internal Combustion Engine
Intelligent Vehicle
Agricultural Mobility System
Embeded System
Automotive Multimedia System
Air Conditioning and Refrigeration
Environment-Friendly Vehicles
Vehicle Dynamics and Control
Intelligence Vehicle Networks
Smart Vehicle System
Product development engineering
Hydraulic Engineering
Fuel Cell Vehicles
Automotive and Environmental Engineering

Minor Courses

Introduction of electricity and electronics
Introduction to Automotive Engineering
Introduction To Automobile
Artificial Intelligence
Project Lab 1
Project Lab 2

Major of Intelligent & Immersive Media Convergence

Contact Information
Phone: +82-62-530-4206
Fax: +82-62-530-4208
URL: http://media.jnu.ac.kr

What does Majoring in Intelligent Mobility Convergence Engineering entail?

The convergence of intelligence and immersive media content is focused on the development of cultural technology to create novel media content. The primary goal is to gain proficiency in cutting-edge technologies such as AR, VR, XR, artificial intelligence, and big data, thus enabling the creation and production of engaging media content for human development and for the betterment of our society. To achieve this objective, this field of study encompasses diverse curricula including engineering, humanities, society, and education.

Professors

- Chung Min Joo, Ph.D.
  [Professor, Broadcasting, new media, media content, truejoo77@jnu.ac.kr]
- Chil-Woo Lee, Ph.D.
  [Professor, Computer vision, human interface, leecw@jnu.ac.kr]
- JinSul Kim, Ph.D.
  [Professor, Multimedia, future computing, intelligent platform, jsworld@jnu.ac.kr]
- JaeYeol Lee, Ph.D.
  [Professor, HCI&Design, AR/VR, Smart factory jayeol@jnu.ac.kr]
- Jeeheon Ryu, Ph.D.
  Professor, Education engineering, multimedia design, jeeheon@jnu.ac.kr]
- ByoungIn Kim Ph.D.
  [Professor, historiography, Honam studie, history and cultural planning, kimbi36@jnu.ac.kr]
- Khoung-Soo Kim, Ph.D.
  [Professor, Multimedia design, media content, ks@jnu.ac.kr]
- Hieyoung Jeong, Ph.D.
  [Associate Professor, Biomechanics, robotics, h.jeong@jnu.ac.kr
- Choonsung Shin, Ph.D.
  [Associate Professor, HCI, Cultural content & technology, AR/VR, cshin@jnu.ac.kr]
- Trina Hyunjin Byun, Ph.D.
  [Associate Professor, Media art, digital art, aawoo@jnu.ac.kr]
- Yeong-Jun Cho, Ph.D.
  [Assistant Professor, Computer vision, pattern recognition, yj.cho@jnu.a.kr]
- JungHo Jeong, Ph.D.
  [Associate Professor, Design convergence, service design, vava@jnu.ac.kr]
- JiSue Lee, Ph.D.
  [Assistant Professor, Information behavior, recording administration, jislee@jnu.ac.kr]
- Seungwon Kim Ph.D.
  [Assistant Professor, Augmented & virtual reality, Seungwon.Kim@jnu.ac.kr]

■ Degree Requirements

Students are required to earn 130 credits, normally over a period of 4 years (8 semesters).

■ What Do You Study?

▮ Core Courses

Computational thinking for engineering
Basic Statistics
Immersive Media Convergence
C Programming & Practice
Virtual reality and augmented reality
Artificial Intelligence
XR Metaverse Capstone

▮ Electives

Media Convergence Content Design
Linear Algebra
Data Structures
JAVA Programing and Practice
Digitalmedia and Society
Understanding historical and cultural resources
Opensource Software
Advanced python programming
Metaverse & Virtual World
Media Storytelling
Planning historical and cultural resources
Computer Graphics
IoT System
XR Programming
Game Programming
Digital Information Service and Immersive Media
Deep Learning
Interaction Programming
Human Interface Engineering
xyz MetaDesign
Game Software
Spatial computing
Extended Reality Media Project
Curation of historical and cultural resources
Visual Communication
3D Animation
Mobile Application Software
Immsersive media and education
Convergence media planning and production
Audio Processing
AI-XR convergence project

Faculty of Interdisciplinary Studies

Contact Information
Tel: +82-62-530-1047, 5065
Fax: +82-62-530-1049
URL: http://sdis.jnu.ac.kr/

Faculty of Interdisciplinary Studies

Contact Information
Phone: +82-62-530-1047, 5065
Fax: +82-62-530-1049
URL: http://sdis.jnu.ac.kr

What is the Faculty of Interdisciplinary Studies?

FIS(Faculty of Interdisciplinary Studies) was founded to educate talented people to be logical and critical as well as help them to learn creative problem-solving skills in this knowledge based area with the following aims:

- To specialize in interdisciplinary educational programs
- To focus on educating the future's global leaders
- To create a challenging, creative and cooperative college culture

▶ Educational Goals

· To cultivate students with critical thinking and rational communication skills
· To educate students to use interdisciplinary studying skills
· To train future leaders who can cooperate and create new social values

School of Faculty of Interdisciplinary Studies at Chonnam National University

FIS has two course tracks: the Self-designed Studies Track and General Studies Track. Students who choose the Self-designed Studies Track will remain in FIS until they graduate. Those who choose the General Studies Track will have to choose a major after their first year of curriculum.

Professors

- Sung-Keen Kim Ph.D.
  [Faculty of Interdisciplinary Studies (History of science), skk313@jnu.ac.kr]
- Sung-mo Kang Ph.D.
  [Mathematics Education (Geometry and Topology), skang4450@jnu.ac.kr]
- Su-Jin Lee Ph.D.
  [business administration (Organizational Behavior and Leadership), soojinlee@jnu.ac.kr]
- Won-seok Lee Ph.D.
  [Philosophy (Chinese Philosophy_Neo-Confucianism), ophil91@jnu.ac.kr]
- Tea-il Jeon Ph.D.
  [Animal Science (Animal Metabolomics), tjeon@jnu.ac.kr]

Degree Requirements

Students who choose the Self-designed Studies Track in the major of FIS are required to earn 130 credits to graduate. A self-design major (major required 10, major selection 27) and at least one multiple major must be completed.

■ Self-designed Studies Track

Students will double major in various major tracks, along with their self-designed majors. For these majors, they can choose one of several fields of study or create a self-designed major(Science and Life, Public Interest and Society, Culture and Arts, Future Society and Lifelong Learning, Leadership in International Affairs, Health and Welfare, Fusion Engineering, Economy and Society, Social science, Convergence of Humanities).

■ What Do You Study? (Self-designed Studies Track)

▮ liberal arts Required

Career Plan and Self Understanding (2)
Writing for Self-reflection and communication (3)
English for Global communication 2 (3)

▮ major Required

Selected Topics Seminar 1 (3)
Selected Topics Seminar 2 (3)
Individual Course Design (1)
Advanced Topics Seminar (3)

▮ Electives

Independent Research (3)
Creative Convergence Project (3)
Capstone Design (3)

■ Careers

Graduates of the Department take a variety of career paths. Our graduates are proud of their education in the department and have gone on to a variety of successful careers, including research, education, public service, and many other areas in society.

Faculty of Creative Convergence

Contact Information
Tel: +82-61-659-6665
E-mail: fcc@jnu.ac.kr
URL: http://fcc.jnu.ac.kr/

Faculty of Creative Convergence

Contact Information
Phone: +82-61-659-6665
E-mail: fcc@jnu.ac.kr
URL: http://fcc.jnu.ac.kr

What is the Faculty of Creative Convergence?

The FCC(Faculty of Creative Convergence) was founded to educate talented people to be logical and critical while also helping them to learn creative problem-solving skills in this knowledge based area with the following aims:

- To specialize in interdisciplinary educational programs
- To focus on educating the future's global leaders
- To create a challenging, creative, and cooperative college culture

Educational Goals

- To cultivate students with critical thinking and rational communication skills
- To educate students to use interdisciplinary studying skills
- To train future leaders who can cooperate and create new social values

Professors

- Won-il Cho, Ph.D.
  [Professor, Department of Chinese Studies, mengzi@chonnam.ac.kr]
- Dowon Kim
  [Associate Professor, Neuroengineering, Biomedical Signal Processing, dowon.kim@jnu.ac.kr]
- Kyong-Uk Yang, Ph.D.
  [Professor, Hydraulic-Pneumatic Control, yangku@jnu.ac.kr]
- In-hye, Lee, Ph.D
  [Professors, Korean Studies & Korean Language, Education, leei@chonnam.ac.kr]
- Joonho Kim, Ph.D.
  [Professor, Tourism Strategy, Cultural Tourism, joonho@jnu.ac.kr]
- Jae-Min Lee, Ph.D.
  [Professor, Applied Mechanics, jae27v@jnu.ac.kr]
- Seungwan LIM
  [Professor, High Performance Design Lab, swl.gonsw@jnu..ac.kr]

What Do You Study?

Humanities in the digital age (3)
The Future of Marine and Fisheries (3)
Creative Convergence Seminar (3)

Careers

Graduates of the Department take a variety of career paths. Our graduates are proud of their education in the department and have gone on to a variety of successful careers including in research, education, public services, and many other fields in society.

Ⅺ. Admissions and Campus Life

1. Admissions

Application Period

Stages	Undergraduate	Graduate
First semester(Spring semester)	September to October	September to October
Second semester(Fall semester)	April to May	April to May

Eligibility

▪ Undergraduate

Classification	Language Proficiency	Nationality	Educational Qualifications
Freshman	■ more than Level 3 on Test of Proficiency in Korean (TOPIK) or ■ 550 on TOEFL PBT 210 on TOEFL CBT 80 on TOEFL iBT 700 on TOEIC 550 on TEPS 5.5 on IELTS	Applicant and the applicant's parents are foreign nationals	Those who completed or are expected to complete elementary and secondary education
Transfer (Sophomore, Junior)			■ Those who completed elementary and secondary education and have completed 2 years at a 4-year university or to graduate from a 2 or 3-year junior college ■ Students who have completed 2 years at a 3-year junior college are not eligible.

* Those who completed Korean Language Course level 3,4,5 and 6 at CNU Language Education Center are regarded as the equivalent of achieving level 3-6 on TOPIK.

▪ Graduate

Program	Language Proficiency	Nationality	Educational Qualifications
Master's Degrees	■ Satisfy at least one of following standards below 1) TOPIK Level 3 or higher 2) Chonnam National University Language Education Center's Course Completion Certificate Level 3 or higher	■ The nationality of the applicant and the applicant's parents must be non-Korean ■ Overseas Korean nationals are eligible if they have completed elementary, secondary and post-secondary	■ Those who have, or are expected to complete a Bachelor's degree or its equivalent as stipulated by regulations.
Master's & Doctoral Degrees integrated			
Ph. D.			■ Those who have or are expected to complete a Master's degree or its equivalent as stipulated by regulations.

Program	Language Proficiency	Nationality	Educational Qualifications
	3) TOEFL 530(CBT 197, IBT 71), IELTS 5.5, CEFR B2, TEPS 600(NEW TEPS 326), TOEIC 700 or higher 4) Confirmation of Academic Capability ■ Certain departments require separate language test scores related to Korean or English	education overseas, that is equivalent to that of Korea's 12-year educational system	■ Applicants who have a Master's degree in a special or different field have to receive a recommendation from the head professor of the department for which they are applying

※ Applicants with no nationality or with a dual Korean citizenship are not eligible and cannot be admitted through this admission process. If it is found, the acceptance would be cancelled even after students entered into Chonnam National University.

※ Academic degrees from officially authorized educational institution by the ministry of education in applicant's own country are only recognized.

Admissions Website: http://international.jnu.ac.kr

Contact Information
Phone: +82-62-530-1268(Undergraduate), 5952(Graduate)
Fax: +82-62-530-1269
E-mail: underia@jnu.ac.kr (Undergraduate)
internia@jnu.ac.kr (Graduate)
URL: http://international.jnu.ac.kr

2. International Affairs

International Exchanges & Education

As of August 2023, CNU promotes academic and cultural exchanges with 344 overseas partner universities and institutions from 59 countries around the world.
More than 600 CNU students each year go abroad as international exchange students. CNU also promotes and operates faculty exchanges and joint research projects with overseas partner universities.

1.1 Study Abroad Programs

To enhance international competitiveness and to nurture a global mindset in students, CNU offers a wide variety of short and long-term study abroad programs as follows:

1) Student Exchange Programs
2) Double Degree Programs
3) Global Internship Programs
4) Foreign Language Learning Programs

1.2 On-Campus Programs

The Office of International Affairs provides students with well-organized international programs on the campus of CNU. By participating in these programs, students can improve foreign language skills and build lifelong friendships with international students.

Programs

1) International Summer Session: Professors from partner universities conduct classes in English. There are various cultural excursions available for both Korean and international students throughout this program.
2) Buddy Program: This program is designed to help international students better adapt to local culture and campus life by pairing them with CNU students.

International Student Recruitment

The Office of International Affairs annually participates in international education fairs held in various countries. In order to recruit excellent students, the international office endeavors to build strong cooperation with overseas partner universities. The international admission process is conducted every April-May for the Fall semester and September-October for the Spring semester. Applications are accepted on-line.

Office of International Affairs

Phone: +82-62-530-1268(Undergraduate Admission Inquiry)
+82-62-530-5952(Graduate Admission Inquiry)
Fax: +82-62-530-1269
E-mail: internia@jnu.ac.kr(Graduate), underia@jnu.ac.kr(Undergraduate)
URL: http://international.jnu.ac.kr

3. International Student Support Program

Scholarships

Scholarships may be granted to international students according to CNU scholarship regulations as follows:

- Graduate School / Post-graduate studies

1. Academic Excellence Scholarships are granted to those who have achieved a high academic status. Partial waiving of tuition is offered to selected students.
2. Global Scholarships are granted to new graduate students who meet the criteria set by the college to which they belong. Selected recipients receive a tuition waiver for their first semester.
3. SRS(Strategic Researchers Scholarship) Scholarships are granted to new graduate students who are selected as research assistants by their prospective academic advisors in CNU. In order to be considered as a candidate for this scholarship, students must be recommended by their prospective academic advisors in CNU. Selected recipients receive a tuition waiver for their first semester.
4. TOPIK(Test Of Proficiency in Korea) Scholarships are granted to new graduate students who have a TOPIK Level 6 Certificate. Selected recipients receive a tuition waiver for their first semester.

- Undergraduate Studies

1. Academic Excellence Scholarships are granted to those who have achieved a high academic status. Partial waiving of tuitions fees is offered to selected students.
2. TOPIK Scholarships are granted to new undergraduate students who have a TOPIK Level 4~6 Certificate. Selected recipients receive a full or partial tuition waiver for their first semester.
3. CNU-BRIDGE Scholarship are granted to new undergraduate students who have registered at least two regular Korean courses at language education center of CNU. Selected recipients receive a partial tuition waiver for their first semester.
4. Need-Based Scholarships are awarded after fully taking into account the financial situation and the academic status of the students. Full or partial waiving of tuition fees is offered to selected students.

Free Korean Language Courses

Special sessions of Korean language classes are provided for exchange, and graduate students for free of charge. Classes range from seven to ten weeks in length. International students may take the chance to learn basic expressions for daily conversations and broaden their understanding of Korean culture by participating in such classes.

Buddy Program

The CNU buddy program aims to promote academic achievement and adaptation to university life for new incoming overseas students (exchange, undergraduate students only) who can overcome difficulties by being matched with a CNU student partner.

Medical Support

CNU has its own medicare center in student union building and international students may receive general medical treatment there. The medicare center is equipped with a general diagnosis room, oral health room, medicine dispensing room, clinical lab/inspection room, X-ray facilities, a dental unit, and other medical equipment e.g. automatic analysis system; diagnoses available every day from full-time qualified doctors and medical professionals.

※ Inquiries: Medicare Center ☎ 062-530-3606(Gwangju) ☎ 061-659-6235(Yeosu)

Visa Information

After an international student is admitted to CNU, the Office of International Affairs will provide all documents necessary for visa issuance, such as a certificate of admission and other certificates required. In addition, international students will be notified about their visa matters (e.g. alien registration, extension of sojourn period, change of status of sojourn etc.) during the study period.

4. Academic Affairs

Registration

Each student of a degree program must enroll as follows within the designated period of time each semester. The due date will be announced on campus bulletin boards, and an information e-mail will be sent to the student. The enrollment fee is stipulated at the end of each school year; the average amount is approximately US $2,500.

- Tuition for spring semester: due in mid-February
- Tuition for fall semester: due in mid-August

Class Registration

■ **How to register for classes**

Students should check their class schedule and syllabus of each course under the guidance of their advisor professors and sign up for the classes online during the designated period.

■ **Credits for Each Semester**

- Departments (divisions) that require 120 credits for graduation: 16 credits
- Departments (divisions) that require 130 credits for graduation: 17 credits
- Departments (divisions) that require 140 credits for graduation: 18 credits
- Departments (divisions) that require 150 credits for graduation: 20 credits
- Departments (divisions) that require 160 credits for graduation: 24 credits (Note that students majoring in architecture need 18 credits.)
- Pre-veterinary, pre-med, pre-dentistry students: 21 credits
- Department of Medicine (yearly): 51 credits

※ When necessary, students can be allowed to take one extra credit

General Curriculum

■ **School days**

Every school year is composed of 30 weeks (15 weeks in each semester)

■ **School year and semester**

- The School year is from March 1st to February 28th of the following year.
- There are two semesters a year: Spring and Fall semesters. Classes may start 2 weeks before the

Fall semester begins.

- Spring semester: from March 1st to the end of August
- Fall semester: from September 1st to February of the following year
- Each semester has classes for at least 15 weeks
- Summer and winter session: 4 weeks

Evaluation

■ **Examination**

All tests are administered at the instructor's discretion.

■ **Evaluation**

All courses are evaluated based on criteria set by the instructor. Students whose attendance rate is below 75% will get an F.

■ **Grades**

Grades range from an F (0) to an A+ (4.5).

■ **Warning for poor GPA**

A warning is given to a student whose average point for each semester is below 1.75 or who failed to register for a new semester. A student is dismissed from school if he or she is warned three times due to a poor average. (For students at the Yeosu campus, the rule has been applied from 2006.)

■ **Academic Failure (Holdover)**

Each department may apply its own rules on academic failure when its student fails to meet academic criteria the department sets as below:

Department of Medicine

- When the student's average point score is below C(2.0).
- When the student gets a grade of F in any subject.
- Students subjected to holdover must retake the subject in which they got C+ or below in the corresponding school year.

Department of Veterinary Medicine

- When the student's average point of the corresponding school year is below 1.75.
- When the student receives two or more F grades in a major subject (mandatory/elective) during one school year.
- When the student fails to take mandatory classes designated for the school year.
- Students who are subjected to holdover must retake all courses in which they got C+ or below in the corresponding school year.

Law School

- When the student's GPA is below 2.25.

- If a student gets probation, his or her credit gained in the corresponding school year (2 semesters) of which grade is recorded under Bo or below is not subjected to recognition.

Master's program in Graduate School of Dentistry

- When the student's GPA is below 70.
- When the student gets score below 60 in any courses.
- Students who get academic probation are supposed to repeat all the courses provided in the corresponding school year.

Master's program in Graduate School of Medicine

- When the student's GPA is below C(2.0).
- When the student gets an F grade in any courses.
- Students who get probation must retake all courses in which they got C+ or below in the corresponding school year.

Graduation

Degrees are conferred to students who complete the required courses and obtain credits for graduation according to the rules of academic affairs within a given period of school years.

■ **Requirements for graduation**

- Completion of school years (Statute 20)
- Completion within a term (Statute 21)
- Acquisition of required credits (120-160 credits)
- Completion of mandatory courses/optional courses based on the school year schedule
- Minimum G.P.A. of 1.75 for all semesters (including summer/ winter session)
- Passing grade in mandatory courses (major, foreign language, computing) (This doesn't apply to students who were admitted before the class of 1999)

■ **Early graduation**

Students who obtain required credits within the 6th or 7th semester with a minimum G.P.A. of 4.0 (except students who transferred from other institutions) can graduate early. However, students who violate a school regulation or give up on early graduation are not subjected to graduate early.

Scholarships

■ **On-campus Scholarships**

- Tuition Fees Aid/Financial Assistance
  - ・Merit-based Scholarships: Scholarship for students of outstanding record in admission procedure

or during coursework.

・Assistant Scholarships: Teaching Assistant (graduate program)

■ **Life support scholarships**

- Challenge Scholarships

・Undergraduate students who have a challenging, enterprising spirit and sincerely strive for their future are selected

Liberal Arts Education

■ **CNU Liberal Arts Education curriculum**

- Purpose of liberal arts education

・To educate students as convergence talents who can coexist with the community based on creativity and imagination

- Goals of liberal arts education by field

・**Competence Liberal Arts:** Students learn core competencies required by future society through Competence liberal arts classes. Students participate in classes through activities such as presentations, discussions, and team projects.

・**Basic Liberal Arts**: Students learn knowledge and thinking that are the basis of their studies through Basic liberal arts classes.

・**Balanced Liberal Arts**: Students learn knowledge of various academic areas and topics in a balanced manner through Balanced liberal arts classes.

- Organization of liberal arts curriculum

Field1	Competence Liberal Arts	Basic Liberal Arts	Balanced Liberal Arts
Field2	Creativity	Fundamental Science	Humanity and Society
	Sensibility	Basic Tool Subjects	Nature and Technology
	Community	Basic Software	Life and Art
			Expression and communication
			Career and Start-up

■ **Credits for liberal arts**

- Freshmen after 2023: 30 to 45 credits
- Each major department designates a liberal arts course that must be completed. Contact your major department for details.

Distance Education

Distance or remote-learning education refers to classes in which teaching-learning activities are conducted remotely using various media applications.

Students can take up to 9 credits in each regular semester (no limit in the final semester) and up to 6 credits in seasonal semesters, and graduate students can take distance classes up to 4 credits in each regular semester.

■ **e-Class(CNU Learning management system)**

- Website: https://sel.jnu.ac.kr
- Main Functions
  - (Instructor) Content upload, task and discussion management, attendance management
  - (Student) Viewing contents, lecture material download, and assignments submisson
  - (Interaction) Supporting notifications, text messages, emails, and video lectures, etc.

■ **K-MOOC(Korean Massive Open Online Courses)**

- Website: https://www.kmooc.kr
- MOOC stands for Massive Open Online Course, which is an open online learning process. Courses previously available only for students in the classroom were transformed into auditable online video lectures. The courses are composed of interactive learning processes such as Q&A discussions, quizzes, and assignment submission
- Students access prior learning materials before coming to class and deepen knowledge through supplements

5. Learning Support

Learning Support Program

The Office of Education Innovation develops and operates various learning support programs as follows.

■ **Learning Community**

1. Introduction: A community program between professors and students or solely between students
2. Programs: 이뭣고-교학상장(for freshman), 감성공감(culture and art activities), 시민역량 제작소(community for improving civic competencies), 배움공동체(community for improving creativity·sensibility·community competencies), etc.

■ **Coaching and Counseling**

1. Introduction: Coaching on learning strategies related to goal setting and time management and counseling on writing
2. Programs: 학습코칭(learning coaching), 표현과 소통 상담실(writing counselling service), etc.

■ **Special Lectures and Workshops**

1. Introduction: Special lectures and workshops on various topics
2. Programs: 창감공 특강(special lecture for creativity·sensibility·community competencies), 글쓰기 상담가 양성과정(Writing counselor training course), etc.

■ **Competitions and Contests**

1. Introduction: A program that holds contests on various topics or recruits works
2. Programs: 창감공 공모전(contest of creativity·sensibility·community competencies), 실패 공모전(failure contest), 전대愛서 52 에세이 공모전(essay contest), etc.

■ **Online Course**

1. Introduction: Online lectures on various topics
2. Programs: 창감공 온라인 클래스(online class), K-MOOC, etc.

■ **Training Talented Individuals**

1. Introduction: Future talent training program through various education programs and activities
2. Programs: 교양 학생평가기획단(student planner & evaluator), 총장명예학생(president honor students), 온라인 글쓰기 상담가(online writing counselor), etc.

■ **Prevention & Management of College Dropout**

1. Introduction: Support program to prevent college dropout due to academic probation
2. Programs: 도담도담(support program for students on academic probation), 런투런(run to learn: learning counselling), 학습꿈터(tutoring for low achievers), etc.

■ **Feedback System for Performance Management**

1. Introduction: Managing and sharing the performance of learning support programs
2. Programs: Student Mileage, Performance Sharing Festival, etc.

■ **Contact Information**

- Institution: Office of Education Innovation
- Location: 1st and 2nd floors of the university headquarters
- Phone: 062)530-0929
- Website: https://ile.jnu.ac.kr

6. Career and Employment

the Self-Development Activity Record Book

■ **What is the Self-Development Activity Record Book?**

It is a program, where during university life, various activities and experiences both on and off-campus are recorded and managed, and the school officially certifies them.

■ **Application and Processing of the Self-Development Activity Record**

(1) Application Method

Log in to the Chonnam National University portal → Access the Career & Job System (http://capd.jnu.ac.kr) → Self-Development Activity Record → Apply and Check → New Application → Write Activity Details and Attach Supporting Documents → Save.

(2) Processing Procedure:

- Individual Activities: Student applies → Each college's career support office verifies and processes → Recorded in the Self-Development Activity Record.
- Activities Organized by University Departments: The respective department requests inclusion of activity details through official documentation → The Self-Development Activity Record Management personnel in the Career Support Office processes the requests collectively.

■ **Fields of Application**

Selection of university scholarship recipients, participants for on-campus programs, and recommendations for employment, etc.

■ **Record Items and Points by Categories**

Categories	Criteria for Recognition	Activity Contents by Category	Points by Category
Grades	- 4.0 or above: 150 points - 3.5 ~ 3.99: 120 points - 3.0 ~ 3.49: 100 points - 2.5 ~ 2.99: 70 points - 2.0 ~ 2.49: 40 points - 1.75 ~ 1.99: 20 points	- Reflected average grade up to the previous semester	150
Foreign Languages	<Based on TOEIC scores> - 900 or above: 160 points - 850 ~ 899: 140 points	- For other languages such as English, Japanese, German, French, and Chinese, refer to the foreign	200

Categories	Criteria for Recognition	Activity Contents by Category	Points by Category
	- 800 ~ 849: 120 points - 750 ~ 799: 100 points - 700 ~ 749: 80 points - 600 ~ 699: 60 points - 500 ~ 599: 40 points - 400 ~ 499: 20 points - Below 399: 8 points	language score conversion table. - When submitting certified scores for official foreign language examinations, basic points will be awarded. - Obtain a maximum of 160 points for one language and an additional 40 points for each additional certified language (except for the same foreign language). - Foreign Language Area Score = Highest score in foreign languages + 1/4 of the second highest score in foreign languages.	
Career and Self-Development Activity	<University-based/External Career Development Programs> - More than 4 hours but less than 8 hours: 5 points - More than 8 hours but less than 1 month: 10 points - 1 to 3 months: 15 points - 3 to 6 months: 20 points - More than 6 months: 30 points <Major-Related Research Projects and Thesis Participation> - Less than 3 months: 5 points - 3 to less than 6 months: 10 points - 6 to less than 9 months: 20 points - 9 months to 1 year: 30 points <Paper Presentation> - 30 points for the first author of papers published in SCI(E) journals, 20 points for other authors. - Paper presentations at academic conferences · 20 points for international conference presentations as the first author, 10 points for others · 15 points for domestic conference presentations as the first author, 10 points for others <Vocational/Career Aptitude Tests> - Up to 2 tests will be recognized, each with 5 points.	- University-based career development programs ※ However, for self-sponsored programs organized by each college, up to 80 points can be recognized. - External career development programs - Major-Related Research Projects and Thesis Participation ※ Only projects and thesis records registered in CRAMS will be recognized, however, participation in projects will be recognized based on the duration of participation.	200

Categories	Criteria for Recognition	Activity Contents by Category	Points by Category
	※ The same content will be recognized up to 2 times. <Books Written> - 20 points for books with ISBN certification.	Books published with ISBN certification	
Awards and Competitions / Entrepreneurship	- 10 points for winners in on-campus programs - 50 points for winners in domestic programs - 100 points for winners in overseas programs <Patents> - 50 points for domestic patents - 100 points for international patents <Entrepreneurship>: 100 points	- For on-campus awards and competitions, the organizer must be at the level of a department head or higher. ※ For patents, only inventors will be recognized, and recognition will be given when the patent is registered. ※ For entrepreneurship, attach the business registration certificate.	100
Internship / On-site Training	- 15 points for over 1 week but less than 4 weeks - 25 points for over 4 weeks but less than 8 weeks - 50 points for over 8 weeks but less than 12 weeks - 70 points for 12 weeks or more	- Domestic/International internships/on-site training - Overseas exchange programs (excluding individual language training) -International student exchange (Recognized only for participants with a GPA of 1.75 or above)	100
Volunteer Activities	- 1 point per hour - 5 points per blood donation, with no limitation on the number of donations recognized	- Overseas volunteer activities - On-campus/off-campus volunteer activities, blood donation activities	100
Certifications	- Certificate for skilled workers: 10points (e.g., Computer Proficiency) - Certificate for technicians and industrial technicians: 30 points - Professional certifications: 50 points (e.g., Certified Public Accountant, Lawyer, Patent Attorney) ※ Only the highest-level certification will be recognized for identical certifications.	- Major-related and non-major-related certifications ※ Certifications obtained during the university enrollment period	70
Career Counseling	- 5 points for each session ※ Counseling with all professors, teaching assistants, consultants, and mentoring with university staff	- Up to 4 sessions recognized per semester	80
Total			1,000

※ The above content denotes criteria based on domestic students, the criteria, conditions, or prerequisites may vary for international students.

7. Facilities & Services

Library

The Chonnam National University Library (CNUL) was established in 1953 with the aim of building comprehensive collections in all research areas. Having established the digital library system in 1991, the Library provides support to university members and local residents.

Today, the CNUL comprises the main library, the Jeongbo-Maru library, the annex library, the Yeosu campus library, and three branch libraries(Legal, Dental, medical). The entire combined floor space of the library facilities totals an area of 41,242㎡. It currently holds more than 6,100 seats, 2,000,000 books, 800 journals and periodicals and 65 electronic resources(Web DB etc.). CNUL also provides access to other organizations' resources for its users.

As a world-class university, CNUL is now making strides towards becoming a global research-oriented university library.

■ **Services**

- Book Loan / Return / Renewal / Reservation
- Inquiry Ill-DDS: As a service to users, CNUL will provide upon request materials not currently in possession, from domestic or overseas other university libraries or institutions.
- Book requests

※ Please refer to the library website for further details.

■ **Opening Hours**

- Jeongbo-Maru library Weekdays: 09:00~20:00 Saturdays: 09:00~13:00
- Main library/Yeosu campus library/branch libraries: 09:00~18:00 on weekdays

■ **Websites**

- http://lib.jnu.ac.kr/ (Gwangju campus library)
- http://yosulib.jnu.ac.kr/ (Yeosu campus library)

■ **Contact Information**

- (062) 530–3571～2/3551~2 (Gwangju campus library)
- (061) 659-6601 (Yeosu campus library)

Student Residence Halls

■ **Gwangju Campus**

Residence halls on the Gwangju campus have been established and are operated to accommodate approximately 4,000 people.

The halls are divided by gender, with each unit equipped with a shower room, bed, desk, chair, bookshelves, wardrobe, shoe rack, shelf, and refrigerator, alongside a central heating and cooling system. International students can apply for residence halls two months before the move-in day of each semester, benefiting from the opportunity to be selected as residents.

○ **Contact Information**

- Phone: +82-62-530-3733, 3734
- E-mail: dormitory@jnu.ac.kr
- Website(ENG): https://dormitory.jnu.ac.kr/Eng/Main.aspx

■ **Yeosu Campus**

Three student residence halls —Pureun, Yeolin, and Mirae hall— at CNU Yeosu campus can accommodate up to 966 individuals in single and double occupancy cells (534 males and 432 females). Housing is assigned at the start of each semester, including summer and winter session. Housing is assigned at the start of each semester, including summer and winter school sessions. Inexpensive meals are provided for residence hall students. The dormitory rooms are equipped with desks, chairs, bookshelves, beds, wardrobes, and shower rooms. The halls feature communal facilities such as laundry rooms with washing and drying machines, reading rooms, convenience stores, lounges with cable TVs, vending machines, hot & cold water purifiers, PCs and printing rooms, refrigerators, heating systems, meeting rooms, kitchens, halal food kitchens, and fitness rooms/gyms. International students and freshmen will be given priority for housing over other students in the CNU Yeosu campus dormitories.

○ **Contact Information**

- Phone: +82-61-659-6813, 6814
- Website: https://house.jnu.ac.kr/

■ **Hwasun Campus**

The student residence hall located at Hwa-sun is specifically for medical students at CNU. The residence hall can accommodate up to 350 people in either single or double rooms. Housing assignments are made at the beginning of the medical school's academic semester for a period of one year, including summer and winter vacations.

Housing units in the dormitory are equipped with desks, chairs, bookshelves, beds, wardrobes, shower rooms, and refrigerators. The hall also provide amenities such as laundry rooms, study rooms, communal kitchens, lounges (with cable TVs and hot-cold water purifiers), stores, and gyms.

○ **Contact Information**

- Phone: +82-61-379-6601, 6602
- Website: https://hsdorm.jnu.ac.kr/

Language Education Center

The Language Education Center (the LEC) of Chonnam National University is one of the leading institutions in the field of language education and research in Korea. For over fifty years, the LEC has worked towards developing the foreign language abilities of university students, as well as the general public, by providing a broad range of language courses and conducting comprehensive research in the field of second language acquisition.

The LEC provides practical English and Korean language courses and programs, offers English and Korean language teacher training programs, and administers a variety of language proficiency examinations for a number of major languages.

■ **Contact Information**

- Phone: +82-62-530-3631, 3633
- Fax: +82-62-530-3629
- E-mail: language@jnu.ac.kr
- URL: http://lec.jnu.ac.kr

Oh! Yes Center (Transcripts)

■ **Services**: Certificate and ID issuance

- For students: Official Certificates of Graduation (Expected), Certificates of Studentship(enrollment), Transcripts, Proof of Tuition Payments, Copies of College Register, Self-development Activity Record, Issuance of other certifications
- For faculty: Certificates of Employment, Certificates of Career Report, Proof of Earned Income Tax Payment, Various certificates for Part-time instructors
- Other administrative services: Student ID, Faculty ID, International Student ID
- Administrative Q&A regarding school affairs and issues

■ These services are offered through mail, fax, or in-person requests

■ **Office hours**

- Weekdays: 9 AM to 6 PM (Mon. - Fri.)
- Automatic Issuance Machine in the Headquarters Building: 7 AM to 10 PM (available throughout the year)

Office of Information Technology & Services

The Office of Information Technology & Services aims to provide intelligent educational and administrative services based on core information technology in the era of digital transformation.

■ CNU Portal Service

1) Target of the service: CNU students, staff, graduates, and the general public
2) Contents of the service: information services
3) How to use
- Users need to register through the portal system to access information services, etc.
- Different services are provided in accordance with ID and access permission.
- Registration: Join the portal system (https://portal.jnu.ac.kr)

■ CNU Store Mobile Service (CNU Store)

1) Target of the service: CNU students and staff
2) Contents of the service: mobile information services CNU offers (academic calendar, meal plan, mobile ID card, etc.)
3) How to use
- Install “CNU Store” from official download centers (Google Play and Appstore).
- Open the application using the account created in the CNU Portal.

■ Student Email Service

1) Enrolled students who have registered as members of the portal system can use the services provided by Microsoft after separately applying for membership through the “Student Email” menu.
2) Student e-mail service is provided through Microsoft's cloud-based Office 365, and enrolled students use their portal system ID issued through an e-mail account (id@jnu.ac.kr).
3) Main services provided: E-mail, Microsoft Teams, and One Drive

■ Network Connection Service (IP Address Application)

1) To use the school computer network, students can apply for an IP through the IP Application System and go through the administrator's approval process.
- PC, MAC (APPLE), and routers are automatically approved upon IP application while servers, printers, NAS, and other terminals are manually approved after confirmation by the administrator.
2) How to apply for an IP address
- Connect the LAN cable to the PC and run the Internet. - Check the network blocking page and access the IP application system (https://ip.jnu.ac.kr:40443). - Enter the portal ID and PW and apply for the IP.

3) How to set up the IP

- Users receive IP application details through the CNU Store, text, or e-mail. ▸ After checking the IP application details list and assigned IP, refer to the IP application system (https://ip.jnu.ac.kr:40443) for the IP address setting method.

■ Wireless Internet Service

1) Target of the service: CNU members on campus

2) How to use

- Access the wireless LAN page of the Chonnam National University website and download and install the terminal automatic configuration program(https://global.jnu.ac.kr/Life/ITServices/WirelessLAN).
- Enter the portal system ID and PASSWORD using the downloaded terminal automatic configuration program and use it.

■ Computer Labs

1) Target of the service: CNU members on campus

2) Location and working hours

Location	Working Hours	Note
Room No. 105, 106 of 1st Floor	09:00 - 18:00	Closed on public holidays (including Saturdays and Sundays) Service is not available during classes or IT training sessions.
Room No. 109 of 1st Floor	09:00 - 18:00	

■ PC Clinic

1) Service provision

- (IT consultation) Chatbot and phone consultation, remote support, mobile app settings, laptop/ mobile phone wi-fi settings, and problem reporting
- (PC maintenance) On-site repair of PC and peripheral devices, public S/W installation, virus treatment, Internet connection, etc.

2) Operation guidelines

- IT-related remote consultation and PC remote support are available.
- Professional operating personnel in PC Clinic on each campus provides support for rapid on-site maintenance
- Application and processing results provided at CNU Portal ▸ Service Desk ▸ Service Counseling ▸ IT-Related Failure Report and Civil Complaint Application
- Results of satisfaction survey are conducted for service improvement
- For inquiries regarding PC Clinic operation, please contact +82-62-530–3681~2.

■ **Contact Information**

- Phone: 82-62-530-3681~3682 (Help Desk), PC Clinic (82-62-530-3673, 82-61-659-6703 for Yeo-su Campus)
- E-mail: help@jnu.ac.kr; sangdam@jnu.ac.kr
- Homepage: https://ucc.jnu.ac.kr | Portal Service Desk: https://portal.jnu.ac.kr

8. Other Support

Center for Students with Disabilities

■ **Purpose**

To provide comprehensive support for the guaranteed learning rights of students with disabilities, including the establishment of a university learning support system and the expansion of facilities for the convenience of people with disabilities.

■ **Major Support Areas**

1. Learning Support
   - Advanced course registration system: Support for planning course schedules before the start of the semester
   - Educational support personnel and assistive devices provided for students with disabilities for learning activities and campus mobility
   - Request for cooperation from professors regarding guidance and assistance for students with disabilities and course-related matters
2. Operation of Reading Rooms and Lounges for Students with Disabilities
   - Operation of reading rooms with learning materials and improved welfare services for different types of disabilities
   - Provision of a pleasant environment with lounges for students with disabilities, promoting the activation of student clubs for those who have disabilities
3. Welfare Scholarships: Full tuition for tuition fee type 2 for students with severe disabilities who are registered with the Center for Students with Disabilities and have completed 12 or more credits in the previous semester with an average GPA of 1.75 (or 70 points or above out of 100)
4. Special Treatment for Students with Disabilities
   - Credit registration system: For students with severe disabilities, the minimum credits to be taken can be adjusted according to their learning ability.
   - Exemption from the limit on enrollment and leave of absence periods
   - Students with disabilities are exempted from the foreign language test and computer-related area requirements for degree completion.

Human Rights Center

Established in 2016, the Human Rights Center of Chonnam National University has continued to work for promoting and protecting the human rights of members of CNU.

The legal basis for its establishment is Article 19 (3) of the Higher Education Act and the Regulations of the Human Rights Center of Chonnam National University, and its main tasks are as follows:

1. Consultation, receipt of reporting, investigation and recommendations on human rights violations, dealing with cases of sexual harassment and sexual violence
2. Human rights education for members of CNU
3. Other matters necessary to promote and protect the human rights of members of CNU

■ **Contact Information**

- Phone: +82-62-530-5911~12, 5921, 5925 (Gwangju) / +82-659-6236 (Yeosu)
- Email: lovelyj@jnu.ac.kr
- URL: http://hrc.jnu.ac.kr

Safety Services

■ **Campus Safety Services**

- For strengthening the management of vulnerable areas and establishing a system for accident prevention and management
- Dispatch of security personnel in case of emergency to prevent damage or accidents

1. Safe Return Service
   - Escort service for female students returning late at night, with security personnel available upon request
   - Escort to the campus boundary: campus entrances and taxi stands
   - Emergency contact: +82-62-530-0119 on Gwangju Campus and +82-61-659-6119 on Yeosu Campus

2. Emergency Response

a. SOS Emergency Call
   - SOS 119 app is available at CNU Store ⇒ Installation and usage instructions for the SOS119 app can be found on the CNU website.

b. Indoor Emergency Bells
   - Emergency bells are installed at designated locations on campus (e.g., women's restroom located on 1st floor, women's lounge, etc.).
   - In case of emergency, security personnel can be immediately dispatched.

c. On-Campus Emergency Bells
   - Installed in vulnerable areas on campus (33 locations on Gwangju Campus, 10 locations on Yeosu Campus), the emergency bell activates siren and flashing light when pressed along with video and audio communication before security personnel are dispatched to the scene.

[Gwangju Campus On-Campus Emergency Bell Locations]

Locations		
1. Arboretum	12. College of Humanities 2	23. College of Engineering 5
2. The front of the College of Veterinary Medicine 1	13. College of Humanities 3	24. College of Natural Sciences 4
3. The front of the Institute for Agricultural Practice Education	14. Yongbong Building	25. Convention Hall
4. The side door of the Residence Hal	15. The back road of the College of Arts 1	26. Yongji Hall
5. The back road of the College of Agriculture and life Sciences	16. College of Arts 3	27. The right side of the College of Pharmacy 2
6. College of Agriculture and life Sciences 3	17. The right side of the college of Arts 2	28. The left side of the College of Pharmacy 2
7. Jinri Building	18. Industry-Academic Cooperation Center 3	29. The left side of the College of Education 5
8. The road between the College of Agriculture and life Sciences-Jinri Building	19. University Computing Center	30. The right side of the College of Education 5
9. Law School 2	20. College of Education 4	31. Daycare Center
10. College of Social Sciences	21. Industry-Academic Cooperation Center 1	32. School of Dentistry 2
11. College of Administration 2	22. The side door of the College of Engineering 3	33. Sports Ground 1

[yeosu Campus On-Campus Emergency Bell Locations]

Locations		
1. The front of the Culture Education Center	2. The front of the Student Building	3. The side road of the Fisheries and Ocean Sciences Building
4. The front of the University-Industry Research Center	5. The downhill entrance of the Residence Hall(열린학사)	6. The central forest trail of the Residence Hall(열린학사)
7. The front of the Physical Science Center	8. The front of the 2nd Engineering Building	9. The side road of the 3rd Engineering Building
10. The front of the Engineering Training Center		

3. Automated External Defibrillators (AED) Information

a. Locations with AEDs:

- Yongbong Campus: Security Office (2), University Headquarters Lobby (1), 2nd-floor entrance to Student Health Center in the Student Union 1 Building (1), Dormitory Administration Building (1), Dormitory 8 (1), Dormitory 9 (1), Sports Center (2), and 1st-floor entrance to the College of Social Sciences main building (1)
- Hakdong Campus: 2nd floor of the College of Nursing (1)
- Yeosu Campus: Student Union Building entrance to the Health Center (1), 1st-floor lobby of the Yeosu Campus Library (1)

b. AEDs are installed at key locations on campus to allow rapid emergency response and first aid relevant to the type of incident for on-campus emergencies.

4. Campus Patrol

- Integrated security personnel Campus Patrol: Integrated security personnel conduct patrols in vulnerable areas and inside buildings to prevent safety incidents. They coordinate with the integrated security situation room to ensure a safe campus environment for all members of the university.

5. Campus CCTV Surveillance

- Approximately 2,500 CCTV cameras are installed and operated on campus to monitor key facilities and vulnerable areas, preventing theft and safety incidents.

■ **Student Safety Emergency Services**

1. Emergency Contacts in Case of Urgent Situations

<table>
<tr><th colspan="2">Category</th><th>Contact Information</th><th>Category</th><th>Contact Information</th></tr>
<tr><td rowspan="3">SOS Emergency Call</td><td rowspan="2">Gwangju Security Office</td><td>062-530-0119</td><td>Student Affairs Office</td><td>062-530-1074</td></tr>
<tr><td>062-530-0140</td><td>Duty Office</td><td>062-530-1167</td></tr>
<tr><td>Yeosu Security Office</td><td>061-659-6119</td><td>Student Council</td><td>062-530-0580</td></tr>
<tr><td colspan="2">Gwangju Police Station Yongbong District</td><td>062-528-2112</td><td>CNU Human Rights Center</td><td>062-530-5912 / https://hrc.jnu.ac.kr/</td></tr>
</table>

2. Tips for Student Safety

- Avoid traveling to vulnerable areas late at night and, if necessary, travel with two or more people.
- Utilize nighttime safety protection measures (emergency bells, safe return service, and SOS emergency calls).
- Refuse request for surveys, interviews, or meetings conducted by unknown organizations or religious groups and report them.
- Save emergency contact numbers as shortcuts on your phone.

3. Student Safety Protection Measures

- Installation of emergency bells for nighttime (outside and inside 1st-floor women's restrooms and women's lounges)
- Operation of safe return services during nighttime
- Strengthened nighttime patrols in vulnerable areas ※ Integrated Security Office (security service agent) is in charge of night watch.
- Operation of SOS emergency call service

The ODA Network

■ **History of the Gwangju IDCC**

- 2021. 07. 27. Korea International Cooperation Agency (KOICA) - Chonnam National University - Gwangju Metropolitan City signed a business cooperation agreement (MOU) to establish an international development cooperation center
- 2021. 11. 01. Gwangju International Development Cooperation Center newly opened and Mr. Kim Jae-gi inaugurated as the first Center Director
- 2022. 11. 01. Mr. Kim Young-ryull inaugurated as the 2nd Center Director

■ **Purpose**

Gwangju IDCC is purposed on the promoting of the understanding about international development cooperation in the Gwangju-Jeonnam region, expanding its base, and encouraging participation in international development cooperation affairs.

■ **Main Activities**

1. Activities to improve understanding of international development cooperation and ODA projects in the region through international development cooperation understanding education, briefing sessions, meetings, etc.
2. Activities to discover international development cooperation partners such as local universities, companies, public institutions (public enterprises), and civil society and to promote their participation.
3. International development cooperation, ODA-related project discovery and advisory activities in the region
4. Activities to nurture future talents who will enter into global fields such as international development projects through education and promotional events for local youth.

■ **Information for usage: Programs that university (graduate) students can participate in**

- ODA understanding improvement training
  - ODA regular education: Introduction, Advanced 1, Advanced 2, Project Management, Sector Advanced Course, etc.
  - Special lectures on international development cooperation
- Attending ODA briefing session
  - Overseas volunteers group recruitment briefing session
- Participating in ODA promotional events
  - ODA Forum
  - ODA Photo Exhibition
  - ODA Contest
  - University student's ODA supporters and ODA clubs
- Community cooperation projects

- ‘Short-term volunteering program in developing countries’ for university students in Gwangju-Jeonnam areas

• Center’s specialized projects

- ‘Site visit to international development cooperation projects program in developing countries’ for university students in Gwangju-Jeonnam area

■ Contact Information

• **location:** room 415, 4th floor, G&R hub bldg.

• **Tel:** 062) 530–5420~3

• **Web site:** https://gjidcc.modoo.at, idcc_gwangju