2011-2012
Kyung Hee University Bulletin
In a century marked by two world wars, global ideological conflict, and the omnipresent specter of nuclear destruction, the United Nations has been a beacon of hope in a sea of distress. Kyung Hee University recognizes the United Nations’ role in its effort to obtain universal peace and understanding. In this vein, the university seeks to emulate those ideals in its educational system. The university’s emblem is thus modeled after that of the United Nations, and its school song, which praises peace and liberty, resonates with its commitment to those ideals.

The university pursues the United Nations’ ideals through its commitment to creativity, progress, and cooperation, thereby hoping to promote the role of intellectuals and academics in world affairs. To engage intellectuals directly with world events, the university has initiated several international movements, especially the Global Cooperation Society Movement (GCS) which is comparable to Oxford University’s Moral Rearmament Movement (MRA). The GCS strives to protect human rights, build a society of freedom and equality, and ultimately, attain world peace. The Movement for Better Living and the Movement for a Brighter Society (both initiated by Chancellor Choue) also embody the humanistic spirit of the university.

Kyung Hee University strives to bridge cultural and social gaps by promoting mutual understanding and prosperity. As a result, the university encourages frequent exchanges with sister schools overseas to facilitate the exchange of ideas. These activities spread a shared belief in the value of learning.

Since 1982, the university has held international seminars in commemoration of the UN International Day of Peace (the third Tuesday of every September). In 1986, the university sponsored an international peace conference in celebration of the international Year of Peace promulgated by the United Nations. Four volumes of the World Encyclopedia of Peace were edited by the Institute of International Peace Studies (a research arm of the International Association of University Presidents) and published by the Pergamon Press of the United Kingdom to commemorate the Year of Peace. This encyclopedia is the work of over 350 scholars and experts in a broad range of fields from 40 countries and contains more than 500 articles and studies.

The Center for International Exchanges at Kyung Hee University is the most tangible manifestation of the university’s global outlook and commitment to international cooperation. In the past, Korean graduate students often studied abroad, but today, the university strives to lead academic exchange by opening its facilities to visiting scholars and foreign students while exchanging research material with other institutions. Still, the university places great importance on giving its students the experience of studying abroad; thus, each year a number of outstanding faculty members and students are offered financial assistance to participate in international conferences and to pursue study and research projects abroad. Outside the academic sphere, the center oversees intercultural exchange programs that range from art exhibits to sports competitions.
:: CAMPUS MAP

SEOUl CAMPUS

Kyung Hee University

1. Main Gate
2. Kyung Hee Medical Center
3. Kyung Hee Dental Hospital
4. College of Dentistry
5. College of Medicine
6. Medical Library
7. Sewhawon (Dormitory)
8. Pureunsol Building / Parking Lot (Underground), Kyung Hee Boy’s Middle and High School Sports Field (Upper Level)
9. Kyung Hee Boy’s Middle and High School
10. Grand Stadium
11. Neo-Renaissance Building (Kyung Hee Cyber University)
12. University Motto Tower
13. Cheongwoon Building
14. College of Hotel and Tourism Management
15. Kyung Hee Girl’s Middle and High School
16. Kyung Hee Elementary School
17. Sundong Lake
18. College of Fine Arts
19. Institute of International Education
20. Media Center
21. College of Human Ecology
22. Amphitheater
23. Student Center
24. Kyung Hee Kindergarten
25. Crown Concert Hall, School of Music
26. Welfare Center
27. Central Library / Central Museum
28. University Administration Building (Graduate School)
29. Chancellor’s Residence
30. Grand Peace Hall
31. Faculty Offices
32. College of Humanities / College of Science
33. College of Political Science & Economics
34. Sameuiwon (Dormitory)
35. College of Oriental Medicine
36. College of Law
37. 2nd Law School Building
38. Back Gate
39. College of Business Administration
GLOBAL CAMPUS

Kyung Hee University

1. Main Stadium
2. Baseball Stadium
3. Peace Amphitheater
4. Pond
5. College of Natural Science
6. Astronomical Observatory
7. The Graduate School of Pan-Pacific International Studies
8. Central Library (University Administration Hall)
9. Philosopher’s Square (Pensees Plaza)
10. Parking Lot / Bus Stop
11. Training Farm
12. College of Management and International Relations
13. Student Center
14. College of Life Sciences
15. Department of Ceramic Art
16. College of Physical Education
17. Grand Stadium
18. Multimedia Education Building / Global Hall
19. Kyung Hee Park
20. College of Foreign Languages
21. Woojungwon (Dormitory)
22. Renaissance Park
23. Soccer Field / Underground Parking Lot
24. College of Engineering
25. agn-201 Nuclear Reactor
26. Training Factory
27. Main Gate (Neo-Renaissance Gate)
28. Aejiwon (Dormitory)
29. 2nd New Dormitory
30. College of Arts and Design
GWANGNEUNG CAMPUS

Kyung Hee University

1. Main Building
2. Library (Computer Room)
3. Gymnasium
4. Samjeongseheon (Dormitory)
5. Faculty Housing
6. Meditation Hall
7. Peace Tower
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Graduate School
Graduate School
The Department of Korean Language and Literature was inaugurated in 1955 when Kyung Hee was officially accredited as university.

The department aims to conduct both systematic and scientific research in Korean language and literature. The department has three major areas: modern literature, classical literature, and linguistics. In modern literature, students gain knowledge of Korean literature through readings and analyses of literary works. Students are also provided with opportunities to engage in creative writing. In Korean classics, students learn to analyze and study literary works from ancient times to the so-called "Renaissance" of Korean literature. In linguistics, students engage in linguistic studies of the Korean language in its various stages of development throughout history from the ancient to the modern form.

**Degree Requirements**

- At least 24 course units of graduate level credit in Korean Language and Literature courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Korean Language and Literature thesis committee.
- A thesis advisor can be any faculty member from the Korean Language and Literature Department.

**Courses**


**Faculty**

Jae-Hong Kim, Ph.D. Seoul National University, 1981, Professor, Modern Literature, flutekim@khu.ac.kr
Jin-Yung Kim, Ph.D. Seoul National University, 1983, Professor, Old Korean Literature, jim@khu.ac.kr
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Ki-Hyuk Kim, Ph.D. Yonsei University, 1987, Professor, Korean Linguistics, kkkim@khu.ac.kr
The Graduate Studies Program in English Linguistics and Literature offers advanced courses in English Linguistics and English Literature. English Linguistics courses focus on English syntax, English grammar, English phonology, semantics, sociolinguistics, discourse analysis and other areas of linguistic studies. English Literature courses focus on close reading of literary and cultural texts, the study of major authors and genres, issues and questions of critical theories and methods, and the relationship of literary works to their cultural, historical contexts and to other humanities disciplines.

### Degree Requirements
- At least 24 units of graduate level credit in English Linguistics courses (for Linguistics majors) or in English Literature courses (for English Literature majors) are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must pass/fulfill the thesis presentation, defense, and document requirements for the English Linguistics or the Literature thesis/dissertation committee.
- A thesis/dissertation advisor can be any faculty member from the Faculty of English Linguistics (Linguistics majors) or the Faculty of English Literature (for English Literature majors) in the Graduate Program.

### Courses
**English Linguistics**
- Syntax, Lexical Theory, Phonology, Morphology, Sociolinguistics, Discourse Analysis, Semantics, Pragmatics, Historical Linguistics, Applied Linguistics, Comparative Linguistics

**English Literature**
Faculty
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Hak-Sung Han, Ph.D. University of Texas at Austin, 1987, Professor, Linguistics, kakhan@khu.ac.kr
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Suk Kim, Ph.D. New York University, 2006, Full-time Lecturer, English and American Literature, askpeer@gmail.com

Laboratories
- Networking Laboratory

Graduate School
Department of History

Korean History
We research the formation and development of Korea. We research the shape of history and illuminate the basic system of Korea which changes itself continuously. Further specialization may include ancient history, Goryeo and Joseon history, and modern Korean history.

Oriental History
The program emphasizes the understanding of the main stream of Oriental History and illuminating the shape of each historical age. Courses include various issues regarding Chinese and Japanese history.

Western History
We can divide Western History into Ancient, Medieval, Modern, and Contemporary History. We study the formation and change, development of each age through political, economical, social, cultural and intellectual aspects. We research the following themes too.

Archaeology
Graduate program in archaeology offers courses and opportunities to obtain solid foundation of archaeological method and theory. Students also pursue their career in participating and designing archaeological fieldworks, leading to the thesis based on original research.

History of Art - doctoral course only
From ancient to contemporary times, we research the trends of thought in History of Art, History of Aesthetics, History of Artists, and Post-mainstream Art. We also focus on the relationship...
between historical trends and art history.

**Degree Requirements**

- At least 24 course units of graduate level credit in History courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master's courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.
- The thesis advisor can be any faculty member from the department.

**Courses**


**Faculty**

Tae-Sook Lee, Ph.D. University of California, Berkeley, 1986, Professor, Western Modern History, tsllee2338@paran.com
In-Sung Cho, Ph.D. Sogang University, 1991, Professor, Korean Ancient History, cis5785@hanmail.net
Won-Joon Yoo, Ph.D. Chinese Culture University, 1991, Professor, Oriental Medieval History, wjyoo@khu.ac.kr
Ji-Ho Jeong, Ph.D. Tokyo University, 2001, Associate Professor, Oriental Modern History, jjh@khu.ac.kr
Jin-Bin Park, Ph.D. University of Pennsylvania, 2002, Associate Professor, U.S. History, jbinp@hanmail.net
Chun-Taek Seong, Ph.D. University of Washington, 2001, Associate Professor, Prehistoric Archaeology, haeram@khu.ac.kr
Mhan-Ock Koo, Ph.D. Yonsei University, 2002, Assistant Professor, Choson Dynasty History, pero@khu.ac.kr
Jang-Suk Kim, Ph.D. Arizona State University, 2002, Associate Professor, Archaeology, jangsk@khu.ac.kr
Colin Grier, Ph.D. Arizona State University, 2001, International Scholar, Archaeology, cgrier@wsu.edu

**Graduate School**

**Department of Philosophy**

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The master’s degrees program began in 1982 and the doctoral program in 1992. While our curriculum especially focuses on comparative philosophy, students can choose a major in various regional concentrations, such as Western Philosophy, Chinese Philosophy, Indian Philosophy, Korean Philosophy, and various philosophical branches, such as Epistemology,
Metaphysics, Ethics, Social Philosophy, Philosophy of Science, Philosophy of Culture, and so on. These studies should deepen and develop the students’ knowledge of the major. Our practical mission in the graduate course is to develop students’ ability to become professional educators in all academic platforms which require philosophical instruction.

Degree Requirements
- At least 24 course units of graduate level credit in Philosophy courses are required for the master’s degree and 36 course units for the doctoral degree. Both degrees require 3 steps of common thesis research courses during 3 semesters.
- Students must pass a qualifying examination (3 subjects for the master’s degree and 4 subjects for the doctoral degree).
- Students must pass a foreign language examination. This is common for master’s and doctoral degrees. Students who completed the alternative-language program are exempt from it.
- Students must pass a doctoral (or master’s) thesis for a degree.

Courses

Faculty
Jung-Sik Choi, Ph.D. Paris 3 Sorbonne Nouvelle, 1992, Professor, Greek and French Philosophy, jschoi@khu.ac.kr
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In-Cheol Park, Ph.D. Universitaet Wuppertel, 2000, Associate Professor, German Philosophy, heimwelt@khu.ac.kr
Suk-Yoon Moon, Ph.D. Seoul National University, 1995, Professor, Korean Philosophy, symoon@khu.ac.kr
Sung-Ho Choi, Ph.D. Seoul National University, 2003, Associate Professor, Philosophy of Science, choise80@khu.ac.kr

Established in 1994, the graduate program of sociology of Kyung Hee University offers a master’s and a Ph.D. program. As of 2005, there are 15 students enrolled in the master’s program and 5 students in the Ph.D. program. The program is strongly committed to education and research in the broad range of sociological inquiry, providing a wide range of sociological sub-fields including social psychology, information society, organizations, culture, science, and methodology, and religion. This program has a strong emphasis on social research training. The program prepares students for professional careers in the field of social research and policy and related fields.
Degree Requirements
- At least 24 course units of graduate level credit in Sociology courses are required for the master’s degree, 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense and document requirements for the department thesis committee.
- A thesis advisor can be any faculty member in the department.

Courses

Faculty
Chang-Soon Lee, Ph.D. University of Chicago, 1985, Professor, Social Organizations, cslee@khu.ac.kr
Seung-Yeon Hwang, Ph.D. Universitaet Saarland, 1990, Professor, Social Psychology, lion@khu.ac.kr
Hee-Je Bak, Ph.D. University of Wisconsin-Madison, 2001, Associate Professor, Sociology of Science and Technology, hbak@khu.ac.kr
Jae-Ryong Song, Ph.D. University of Bristol, 1997, Associate Professor, Sociology of Religion & Culture, Social Theory, jrsong@khu.ac.kr
Jong-Young Kim, Ph.D. University of Illinois, 2005, Full-time Lecturer, Medical Sociology, jykim24@khu.ac.kr

Research Institutes
- Institute for Information Society Studies
  Office: +82 2 961 9367
  E-mail: research@khu.ac.kr
  Director: Professor, Jong-Young Kim

Research Overview
Research at the Institute for Information Society Studies at Kyung Hee University focuses on the interaction of information technology, the study of society, social aspects of knowledge, society, and the formation and characteristics of scientists and engineers. A strong emphasis is given to social surveys as the principle research method.

Ongoing Research
- Development of the online education system
- Study of the values of Korean scientists and engineers
- Survey of environmental consciousness in the citizens of Seoul, Tokyo, Peking, and Taipei
- Public conceptions of science and engineering occupations
- Public spheres mediated by ICT
In general, graduate courses are to foster potential scholars in legal sciences. There are two programs: a master’s program and a Ph.D. program. A graduate student is required to further study a specialized area of law. All the courses provided in the Department of Law are directed to the education of a new generation of scholars and specialists with independent research capabilities and international competitiveness to meet social and educational needs. Graduate students are required to write a thesis of their own specialty under the appropriate guidance of their advising professors. The following methodology is usually employed in graduate studies:

- study both civil law and common law in a comparative manner;
- study the basic elements of law including the philosophical, social, and historical background of legal phenomena;
- enhance presentation and debate capabilities; and
- participate in seminars and dissertation sessions open to the public.

Degree Requirements

- At least 24 credits of graduate studies in Law are required for a master’s degree while 60 credits including the credits obtained during master while 60 courses are necessary for a Ph.D. degree.
- Students must pass a qualifying examination.
- Students must write a thesis under the guidance of an advising professor and pass the oral dissertation before the evaluation committee.

Courses

In general, graduate courses are established for both the master’s and doctoral degree. One difference is the broad group of studies for master’s courses while specialized subjects are provided to Ph.D. students. Master’s degree courses: Public Law, Private Law, Criminal Law, Basic Legal Science

Faculty

Hee-Won Kang, Dr. jur. Freiburg University, 1989, Professor, Labor Law, Philosophy of Law, heeone33@hanmail.net
Tae-Soo Kang, Dr. jur. Bonn University, 1993, Professor, Constitutional Law, tskang@khu.ac.kr
Jae-Yeol Kwon, S.J.D. Georgetown University, 1995, Associate Professor, Commercial Law, jykwon@khu.ac.kr
Doo-Hyung Kim, Ph.D. Kyung Hee University, 1996, Professor, Tax Law, juskim@khu.ac.kr
Dong-Il Noh, J.D. Southwestern University, 1992, Associate Professor, Media Law, Constitutional Law Practice, dinoh7869@khu.ac.kr
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Jeong-Hun Park, Ph.D. Kyung Hee University, 2000, Associate Professor, Administration Law, augustpark@khu.ac.kr
Whon-II Park, Ph.D. Kyung Hee University, 2000, Associate Professor, Commercial Law, onepark@khu.ac.kr
Kyung-Chul Beom, Ph.D. Chonbuk University, 2001, Associate Professor, Civil Procedure Law, bkc153@khu.ac.kr
The new millennium presents us with a host of challenging opportunities. International relationships and cyberspace are tearing down geographical boundaries that once separated universities in different lands. Educational boundaries between disciplines and traditional major areas of study are merging to meet the multidisciplinary and multi-cultural needs of life in a global society. And global information networks are gradually tearing down technological boundaries that once separated rich nations from the poor. Dramatic changes in the educational landscape are spurring greater cooperation and competition among universities than ever before to the ultimate benefit of students and scholars everywhere.

Kyung Hee University embraces the challenges of the 21st century by building new bridges across old boundaries. These
bridges include new educational programs that stress multiple majors and inter-disciplinary studies, strategic partnerships with private and public R&D centers that pool resources and promote innovative research, and new international relationships that bring Kyung Hee University students together with students, faculty and programs of other leading universities around the world. Aggressive investments in new research facilities, information systems, and infrastructure give these bridges the strength and flexibility to extend far into the next century.

**Degree Requirements**

- At least 24 course units of graduate level credit in Public Administration courses are required for the master’s degree while 60 course units are required for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense and document requirements for the Public Administration thesis committee.
- A thesis advisor can be any faculty member from the Public Administration Department.

**Courses**


**Faculty**

Byung-Jin Kim, Ph.D. Florida State University, 1980, Professor, Politics, kimbc@khu.ac.kr
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Tae-Young Kim, Ph.D. Cornell University, 1998, Associate Professor, City and Regional Planning, tykim@khu.ac.kr
Kwang-Gu Kim, Ph.D. University of Wisconsin-Madison, 2002, Assistant Professor, Public Administration, kkim20@khu.ac.kr
Ji-Woong Yoon, Ph.D. Carnegie Mellon University, 2005, Assistant Professor, Public Policy and Management, jiwon@khu.ac.kr

**Laboratories**

- **Public Administration Laboratory**
  - Director: Assistant Professor, Dong-Myun Shin (dmshin@khu.ac.kr)
  - **Research Overview**
    - Our research at the Public Administration Laboratory at Kyung Hee University focuses on the study of Public Administration Theory, Administration Management, Public Policy Theory, Local Administration, and Public Welfare Administration.

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Political science is a discipline which empirically analyzes political phenomena, normatively criticizes political reality, and promotes a desirable model of politics. The Department of Political Science is an academic community for the students of political science to pursue such goals. The department was rated as one of the top 5 political science departments by the Joong Ang Daily in 2002. The department also has two affiliated institutes: the Institute for Korean Politics and the Institute for Citizen Politics.

Degree Requirements

- At least 21 course units of graduate level credit in Political Science courses are required for the master’s degree, 27 course units for the doctoral degree (excluding units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Political Science thesis committee.
- A thesis advisor should be a faculty member from the Department of Political Science.

Courses

Korean Government and Politics, Contemporary Political Thought, Political Research Methodology, American Government and Politics, International Political Economy, Comparative Foreign Policy, Japanese Government and Politics, Chinese Government and Politics, Comparative Politics Methodology, Comparative Studies of South and North Korea, Seminar on Theory of International Politics, Seminar on Western Political Thought, Citizen Politics, etc.

Faculty

Seung-Hyun Paek, Ph.D. University of Louisiana, 1989, Professor, Political Philosophy, shbaek@khu.ac.kr
Soung-Ho Lim, Ph.D. M.I.T., 1995, Professor, Comparative Politics, limsh@khu.ac.kr
Seok-Won Song, Ph.D. Kyoto University, 2000, Associate Professor, Comparative Politics, Japanese Politics, j60w0178@khu.ac.kr
Hyun-Suk Yu, Ph.D. Kyoto University, 2000, Associate Professor, Comparative Politics, Japanese Politics, j60w0178@khu.ac.kr
Hyun Kim, Ph.D. City University of New York, 1996, Professor, International Relations, hyunkim@khu.ac.kr
Seong-Yi Yun, Ph.D. Ohio State University, 1997, Professor, Comparative Politics, Korean Politics, yun31@khu.ac.kr
Jong-Pil Chung, Ph.D. Syracuse University, 2005, Assistant Professor, Comparative Politics, Chinese Politics, jongpil@khu.ac.kr
Ji-Whan Yun, Ph.D. University of California at Berkeley, 2008, Full-time Lecturer, Comparative Politics, jjwhanyun@gmail.com

Research Institutes

- Institute for Korean Politics
  The Institute for Korean Politics focuses on the study of Korean politics as well as a variety of issues of comparative and international politics. The Institute publishes the “Journal of Korean Politics.”
Institute for Citizen Politics

The Institute for Citizen Politics focuses on the study of citizen politics as well as other comparative and international political issues. Together with the Association of Citizen Politics, the Institute publishes the "Journal of Citizen Politics."

Graduate School

Department of Journalism and Communication

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The mission of the Graduate Studies of Journalism and Communication at Kyung Hee University is to educate students who wish to become professional journalists, producers and researchers in media/cultural industries, advertising, political consulting, as well as teaching personnel in educational institutions. We have 12 full-time faculty members whose areas of specialization include political communication, print and broadcast journalism, advertising and PR, visual studies and production, as well as speech and human communication.

Degree Requirements

- At least 24 course units of graduate level credit in Journalism and Communication courses are required for a master’s degree. A total of 60 course units are required for a Ph.D. degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill proposal presentation, thesis submission, and oral defense of the thesis.
- A thesis advisor must be a faculty member of the Journalism and Communication Department.

Courses

Advertising and PR Psychology, Expression in Advertising, Persuasive Communication, Quantitative Communication Research Methods, Qualitative Communication Research Methods, Theories of Political Communication, Seminar in Journalism, Visual Communication, Online Journalism, Media Aesthetics, Human Communication, History of Communication, etc.

Faculty

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Jong-Hyuk Lee, Ph.D. Syracuse University, 2006, Assistant Professor, Journalism, jonghhhh@khu.ac.kr
Soo-Young Cho, Ph.D. University of Missouri at Columbia, 2005, Assistant Professor, Public Relations, sycho@khu.ac.kr

Laboratories
Currently, the digital studio and the speech laboratory are run by the program for research and training.

Research Overview
Various kinds of research which deal with mass media by the program for research and training

Graduate School

Department of Economics

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The graduate program is designed to provide students with professional knowledge and techniques that are required in independent advanced academic research. A notable recent trend is the growing body of foreign students, a clear indication that more and more foreign students are interested in our program.

The recent success in securing the BK21 government funding, which guarantees multi-year financial support for enhancing research capacity and recruiting outstanding students, will strengthen our graduate program significantly. With this opportunity as a springboard, the department is now undertaking a plan to become one of top graduate programs in Korea. The department will hire research professors whose sole responsibility is to produce research papers and recruit outstanding students to the graduate program who will be awarded scholarships that include tuition and fee waivers as well as cash stipends.

Working with outstanding research professors and qualified graduate students, the department will increase its research output and successful placements at sought-after jobs.

Degree Requirements
- At least 24 course units of graduate level credit in Economics courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Economics thesis committee.
- A thesis advisor can be any faculty member from the Economics department.

Courses
- Microeconomics, Macroeconomics, Econometrics, International Economics, Industrial Organization Economics of Public Sector, Public Economics, Money and Banking, Technology and Economics, Monetary Economics, Game Theory, Business Cycle Theory
Faculty
Jae-Wook An, Ph.D. Ohio State University, 1987, Professor, Economics of Money, Bank & Financial Markets, jwan@khu.ac.kr
Eui-Tae Chang, Ph.D. University of Wisconsin, 1984, Professor, International Economics, etchang@khu.ac.kr
Yong-Seok Choi, Ph.D. Brown University, 2002, Assistant Professor, International Trade, choiy@khu.ac.kr
Ke-Young Chu, Ph.D. Columbia University, 1976, Professor, Theory of Economic Policy, kchu@khu.ac.kr
Dong-Hoon Chun, Ph.D. University of Pennsylvania, 1982, Professor, Economics of Public Sector, Public Economics, dhjeon@khu.ac.kr
Tack-Seung Jun, Ph.D. Columbia University, 2001, Associate Professor, Theory of Microeconomics, tj32k@khu.ac.kr
Yong-Seung Jung, Ph.D. University of Rochester, 1995, Professor, International Finance, jungys@ku.ac.kr
Jeong-Yoo Kim, Ph.D. Stanford University, 1992, Professor, Law and Economics, jyookim@khu.ac.kr
Ki-Seok Lee, Ph.D. University of Chicago, 1990, Professor, Econometrics, econklee@khu.ac.kr
Man-Jong Lee, Ph.D. Pennsylvania State University, 2005, Assistant Professor, Monetary Economics, manjong@khu.ac.kr
Seon Lee, Ph.D. Cornell University, 1978, Professor, Economics of Culture, leeseon@khu.ac.kr
In-Sik Min, Ph.D. Texas A&M University, 2003, Assistant Professor, Econometrics, imin@khu.ac.kr
Chong-Kook Park, Ph.D. Iowa State University, 1990, Professor, Theory of Industrial Organization, ckp@khu.ac.kr
Hyun Park, Ph.D. University of Rochester, 1992, Professor, Microeconomics, econhyun@khu.ac.kr
Myung-Kwang Park, Ph.D. University of Santo Tomas, 1978, Professor, Theory of Economic Development, mkp@khu.ac.kr
Woo-Sung Park, Ph.D. Brown University, 1989, Professor, Comparative Economic System, wspark@khu.ac.kr
Woo-Heon Rhee, Ph.D. Yale University, 1990, Professor, Macroeconomics, wrhee@khu.ac.kr
Dong-Gyu Shin, Ph.D. University of Michigan, 1995, Professor, Labor Economics, dgshin@khu.ac.kr
Tae-Hyun Ahn, Ph.D. Ohio State University, 2008, Full-time Lecturer, Microeconomics, tahm@khu.ac.kr
Hyung-Sun Choi, Ph.D. Iowa State University, 2008, Full-time Lecturer, Macroeconomics, hyungsunchoi@khu.ac.kr

Research Institutes
- Kyung Hee Economics Institute
  Director: Professor, Woo-Sung Park (wspark@khu.ac.kr)
  Research Overview
  - Economic policies on growth, development and information technology
  - Economic theory
  - Forecasting economic and financial variables, such as stock prices, derivative prices, and exchange rates
  Ongoing Projects
  - Daily forecasts of stock prices of a selected group of companies
  - A study of derivative markets in Korea
  - A study of the mobile phone industry
We have dedicated ourselves to 4 strategic aims which will guide us towards greater success in the coming years: (1) provide high-quality education which meets the needs of the government and corporations; (2) develop and enhance quantitative research which has acknowledged standards of excellence; (3) make great academic and practical contributions to developing business ethics and social responsibility, and finally; (4) increase the international reputation and influence on research and practice within our tracks of marketing, operations management, finance, and human resource management. We are continually updating our education program and curriculum in order to achieve the above aims. Currently, we have substantial expertise in e-marketing, financial engineering, insurance and risk management, total quality management, and organizational behavior. We also pride ourselves on having close contact with the leading professional institutions and with business and industry. Our links, both with domestic and overseas professionals, are reflected in our academic and practical education programs and research.

Degree Requirements
- At least 24 course units of graduate level credit in Business Administration courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.
- A thesis advisor can be any faculty member from the department.

Courses

Faculty
School of Management
Finance
Jung-Bum Wee, Ph.D. University of Oregon, 1995, Associate Professor, Economics, jbw@khu.ac.kr
Kun-Woo Kim, Ph.D. University of Massachusetts, 1985, Professor, Finance, kwkim@khu.ac.kr
Dong Han, Ph.D. University of Illinois at Urbana-Champaign, 1985, Professor, Finance, dongs@khu.ac.kr
Joo-Ho Sung, Ph.D. City University (London), 1997, Professor, Risk Management & Insurance, jhsung@khu.ac.kr
Hwa-Sung Kim, Ph.D. KAIST, 2004, Assistant Professor, Finance, fstar@khu.ac.kr
Young-Soon Kwon, Ph.D. University of Pennsylvania, 1986, Professor, Finance, ykwon@khu.ac.kr
Sang-Soo Park, Ph.D. University of Chicago, 1990, Professor, Finance, sspark@khu.ac.kr
Won-Kyu Park, Ph.D. Cornell University, 1985, Professor, Finance, wpark@khu.ac.kr
Bong-Joo Lee, Ph.D. Indiana University, 1986, Professor, Insurance, bjlee@khu.ac.kr
Sang-Kyu Lee, Ph.D. University of Illinois, 1989, Professor, Econometrics, Monetary Economics, sklee@khu.ac.kr
Human Resources Management
Yong-Seung Park, Ph.D. University of Minnesota, 1997, Associate Professor, Human Resource Management and Industrial Relations, yspark@khu.ac.kr
Jae-Won Lee, Ph.D. University of Warwick, 2003, Assistant Professor, Human Resource Management, jwlee10@khu.ac.kr
Young-Chul Chang, Ph.D. University of Toronto, 1992, Professor, Management, ycchang@khu.ac.kr
Ja-Sook Gu, Ph.D. Harvard University, 1995, Assistant Professor, Psychology, jasook@khu.ac.kr
Woo-Sung Park, Ph.D. France HEC University, 1996, Assistant Professor, Human Resource & Organization Management, pwoosung@khu.ac.kr
Jai-Yong Park, Ph.D. Purdue University, 1993, Associate Professor, Human Resource & Organization Management, jypark@khu.ac.kr

Marketing
Jun-Seok Kim, Ph.D. University of Texas at Arlington, 2001, Assistant Professor, Brand Marketing, jkimuta@khu.ac.kr
Geon-Cheol Shin, Ph.D. Georgia State University, 1992, Professor, Management, gcs@khu.ac.kr
Hoon-Young Lee, Ph.D. University of Pennsylvania, 1993, Professor, Marketing/MIS, hylee@khu.ac.kr
Woon-Bong Na, Ph.D. Singapore Nanyang Technological University, 1996, Associate Professor, Marketing, wbna@khu.ac.kr
Byeog-Joon Moon, Ph.D. University of Connecticut, 1997, Associate Professor, Marketing, bmoon@khu.ac.kr
Chan-Wook Park, Ph.D. Indiana University, 1991, Associate Professor, Marketing, cwpark@khu.ac.kr
Yong-Seok Sohn, Ph.D. New York University, 1994, Associate Professor, Marketing, yshon@khu.ac.kr

Operation Management
Do-Hoon Kim, Ph.D. KAIST, 2001, Associate Professor, Management Science & Telecommunication, dyohaan@khu.ac.kr
Seo-Kyoo Ahn, Ph.D. Ohio State University, 1982, Professor, Operation Management, skahn@khu.ac.kr
Dong-Won Seo, Ph.D. Georgia Institute of Technology, 2002, Associate Professor, Operations Research, dwseo@khu.ac.kr
Ho-Chang Lee, Ph.D. University of Pennsylvania, 1990, Professor, Operation Management, hochang@khu.ac.kr

E-Business/MIS
Yung-Ho Suh, Ph.D. Syracuse University, 1990, Professor, Management Information Systems, suhy@khu.ac.kr
Joo-Seok Park, Ph.D. University of California, Berkeley, 2000, Professor, Management Information Systems, jspark@khu.ac.kr
Jae-Kyeong Kim, Ph.D. KAIST, 1991, Professor, Management Information Systems, jaek@khu.ac.kr
Kyoung-Jun Lee, Ph.D. KAIST, 1995, Associate Professor, Information Systems, kle@khu.ac.kr
Oh-Byung Kwon, Ph.D. KAIST, 1995, Associate Professor, Management Information System, obk@khu.ac.kr
Min-Yong Kim, Ph.D. KAIST, 1994, Associate Professor, M.I.S., andy@khu.ac.kr
Jae-Hong Park, Ph.D. The University of Texas at Austin, 2010, Professor, Management Information Systems/E-commerce, jaehp@khu.ac.kr

General Management
Han-Won Kim, Ph.D. Milano University, 1982, Professor, International Economics, hkwkim@khu.ac.kr
Jung-Mo Kang, Ph.D. Northern Illinois University, 1983, Professor, International Economics, jmkang@khu.ac.kr
Shin Kim, Ph.D. Korea University, 1985, Professor, International Management, skim@khu.ac.kr
The Department of Health Services Management was inaugurated in 2008 for the first time in Korea.

Degree Requirements
- At least 24 course units of graduate level credit in Health Services Management courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.

Courses

Faculty
- Sang-Man Kim, Ph.D. University of Nebraska, 2004, Assistant Professor, Management, smkim@khu.ac.kr
- Sang-Chan Park, Ph.D. Illinois State University, 2009, Professor, Management, sangchan@khu.ac.kr
- Ho-Chang Lee, Ph.D. University of Pennsylvania, Professor, Management, hochang@khu.ac.kr
- Hoon-Young Lee, Ph.D. University of Pennsylvania, 1993, Professor, Management, hylee@khu.ac.kr
- Yang-Kyun Kim, Ph.D. University of South Carolina, 2000, Associate Professor, Management, jk Kimuta@khu.ac.kr
- Jae-Won Lee, Ph.D. University of Warwick, 2003, Assistant Professor, Management, jwlee10@khu.ac.kr
- Bong-Kun Choi, Ph.D. Kyung Hee University, 2001, Professor, Medicine, bong0519@khu.ac.kr
The mission of graduate study in this department is to develop effective, responsible leadership of consultants in global business, industry, and non-profit organizations by equipping graduates with the technical, analytical, and cultural competencies required in the consulting arena including research and education. The vision is for the department to become the premier world-wide provider of consulting services for efficient, effective management of for-profit and non-profit organizations. In order to achieve the mission and the vision, this department proposes to the faculty and the student body, attitudes and policies that are reinforced through integrity, innovation, and social responsibility. Four consulting majors are provided in the master’s and doctoral degrees, including Management Innovation, Service Management, Information Technology, and Pension.

Degree Requirements
- At least 30 course units of graduate level credit in Management Consulting courses are required for the master’s degree, and a further 36 course units for the doctoral degree (excluding units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for their thesis.
- For the master’s degree, students must publish at least one paper to a professional academy, and doctoral students must publish at least two papers before reaching the final graduation stage.

Courses

<table>
<thead>
<tr>
<th>Course Area</th>
<th>Subjects</th>
<th>Notes</th>
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| Common Elective Courses | • Decision Analysis  
                        | • Multivariate Statistical Analysis  
                        | • Business Model Methodology             | Students should take at least five of eight courses. |
|                      | • Management Strategy  
                        | • Cases Study and Research Methodology |                                         |
|                      | • Seminar of Integrated Thinking  
                        | • Management and Social Responsibility |                                         |
| Management Innovation | • Organizational Innovation Consulting  |                                           |                                         |
|                      | • Process Innovation  |                                           |                                         |
|                      | • s-HRM [strategic Human Resources Management] Consulting, etc          |                                           |                                         |
| Service Management   | • CRM [Customer Relationship Management] Consulting           |                                           |                                         |
|                      | • SCM [Supply Chain Management] Consulting                        |                                           |                                         |
|                      | • Service Quality Consulting, etc                                    |                                           |                                         |
| Information Technology | • EA [Enterprise Architecture] Consulting                      |                                           |                                         |
|                      | • IT Governance Consulting                                           |                                           |                                         |
|                      | • Enterprise Web 2.0 Consulting, etc                                 |                                           |                                         |
| Pension              | • Pension ALM [Asset Liability Management] Consulting                |                                           |                                         |
|                      | • Pension Investment Management Consulting                           |                                           |                                         |
|                      | • Pension Tax Accounting Consulting, etc                             |                                           |                                         |
Faculty

Management Innovation
- Sang-Ho Song, Ph.D. Korea University, 1991, Professor, Human Resource Management, shsong@khu.ac.kr
- Jae-Won Lee, Ph.D. University of Warwick, 2003, Assistant Professor, Human Resource Management, jwlee10@khu.ac.kr
- Young-Chul Chang, Ph.D. University of Toronto, 1992, Professor, Management, ycchung@khu.ac.kr
- Yong-Seung Park, Ph.D. University of Minnesota, 1997, Associate Professor, Human Resource Management and Industrial Relations, yspark@khu.ac.kr

Service Management
- Jae-Kyeong Kim, Ph.D. KAIST, 1991, Professor, Management Information Systems, jaek@khu.ac.kr
- Yung-Ho Suh, Ph.D. Syracuse University, 1990, Professor, Management Information Systems, suhy@khu.ac.kr
- Byung-Suh Kang, Ph.D. University of South Carolina, 1985, Professor, Service Operations Management, bskang@khu.ac.kr
- Sang-Man Kim, Ph.D. University of Nebraska, 2004, Assistant Professor, Management, smkim@khu.ac.kr
- Hye-Jung Chang, Ph.D. University of Illinois at Urbana-Champaign, 1993, Associate Professor, Quantitative Methodology and Health Informatics, hjchang@khu.ac.kr
- Ki-Taig Jung, Ph.D. University of Pennsylvania, 1992, Professor, Healthcare Systems, ktjung@khu.ac.kr

Information Technology
- Joo-Seok Park, Ph.D. University of California, Berkeley, 2000, Professor, Management Information Systems, jspark@khu.ac.kr
- Kyoung-Jun Lee, Ph.D. KAIST, 1995, Associate Professor, Information Systems, klee@khu.ac.kr
- Min-Yong Kim, Ph.D. KAIST, 1994, Associate Professor, M.I.S., andy@khu.ac.kr

Pension
- Dong Han, Ph.D. University of Illinois at Urbana-Champaign, 1985, Professor, Finance, dongh@khu.ac.kr
- Joo-Ho Sung, Ph.D. City University (London), 1997, Associate Professor, Risk Management & Insurance, jhsung@khu.ac.kr
- Kun-Woo Kim, Ph.D. University of Massachusetts, 1985, Professor, Finance, kwwkim@khu.ac.kr
- Jung-Bum Wee, Ph.D. University of Oregon, 1995, Associate Professor, Economics, jbw@khu.ac.kr
- Hwa-Sung Kim, Ph.D. KAIST, 2004, Assistant Professor, Finance, fstar@khu.ac.kr
- Young-June Kwon, Ph.D. University of Pennsylvania, 1986, Professor, Finance, ykwon@khu.ac.kr
- Sang-Soo Park, Ph.D. University of Chicago, 1990, Professor, Finance, sspark@khu.ac.kr
- Won-Kyu Park, Ph.D. Cornell University, 1985, Professor, Finance, Industrial Organization, wkpark@khu.ac.kr
- Bong-Joo Lee, Ph.D. Indiana University, 1986, Professor, Insurance, bjlee@khu.ac.kr
- Sang-Kyu Lee, Ph.D. University of Illinois, 1989, Professor, Econometrics, Monetary Economics, sklee@khu.ac.kr
- Chan-Woong Park, Ph.D. Seoul National University, 2002, Assistant Professor, Accounting, accpark@khu.ac.kr
The Department of International Business & Trade aims to provide students not only with a broad knowledge of international business, trade, and international economics, but also with insight into contemporary issues of international business and economy. The department designs its courses to produce specialists in international business and trade, international finance, and foreign area economy. To this end, a balanced course of study is structured around a wide variety of relevant subjects which include international business strategy, international marketing, international business and trade environment, international finance, international trade, and foreign area study. The educational objectives of the department are to develop an understanding of international business environment through foreign regional studies and practical knowledge of international trade and cyber trade.

**Degree Requirements**

- At least 24 course units of graduate level credit in International Business & Trade courses are required for the master’s degree, and further 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the department thesis committee.
- A thesis advisor can be any faculty member from the department.

**Courses**


**Faculty**

Chin-Hak Kim, Ph.D. Boston University, 1976, Professor, Foreign Area Study, kchak@khu.ac.kr
Chung-Suk Suh, Ph.D. Kyung Hee University, 1982, Professor, Principle of Trade, Economic Integration, suhcs@khu.ac.kr
Chul Kim, Ph.D. Kyung Hee University, 1984, Professor, Foreign Direct Investment, kc6365@hanmail.net
Il-Tae Son, Ph.D. Northwestern University, 1985, Professor, International Monetary Theory and Policy, iltaeson@khu.ac.kr
Dong-Yeub Kim, Ph.D. Utah State University, 1989, Professor, International Resource Studies, dykim@khu.ac.kr
Hun-Joo Jung, Ph.D. University of Nebraska, 1990, Professor, International Business & Strategy, hjjung@khu.ac.kr
Hag-Min Kim, Ph.D. Washington State University, 1994, Associate Professor, e-Trade, edoctor@khu.ac.kr
The master’s program in Accounting at Kyung Hee University is a two-year program for students with an undergraduate background in accounting, business administration, or related areas. The program is for students who are interested in careers in accounting, including both public and non-public practices. The program provides an opportunity to obtain a more comprehensive foundation in accounting and advanced knowledge in specific accounting or business-related areas through coursework and the dissertation.

The Ph.D. program in Accounting is designed to educate scholars for university faculty or researcher positions in private/public research institutes. It also provides the opportunity for practitioners such as CPAs, financial analysts, and managers to learn newly developed theories in academic fields. The program emphasizes economics and finance background for the accounting discipline, and provides institutional background and knowledge about research methods. The master’s degree program prepares its graduates for a variety of positions in accounting firms, global businesses, business ownership, government, or non-profit organizations. Graduates of our doctoral program can expect to be recruited actively by good business schools and research institutes.

**Degree Requirements**
- At least 24 course units of graduate level credit in accounting and non-accounting courses for the master’s program and 60 course units for the doctoral program, including units completed in the master’s program
- Students must pass the accounting qualifying examination and the foreign language examination.
- Students must fulfill presentation, defense, and document requirements for the accounting thesis committee.

**Courses**
Faculty
Keun-Soo Lee, Ph.D. Sungkyunkwan University, 1988, Professor, Accounting, leeks@khu.ac.kr
Hay-Young Chung, Ph.D. University of California, Berkeley, 1987, Professor, Financial Accounting, hychung@khu.ac.kr
Kwon-Jung Kim, Ph.D. SUNY-Buffalo, 1991, Professor, Accounting, kwonkim@khu.ac.kr
Moon-Chul Kim, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Financial Accounting, kimc@khu.ac.kr
Chan-Woong Park, Ph.D. Seoul National University, 2002, Assistant Professor, Accounting, accpark@khu.ac.kr
Hyoung-Rok Jung, Ph.D. Seoul National University, 2005, Assistant Professor, Accounting, jhrjhr@khu.ac.kr
Sung-Ook Park, Ph.D. Seoul National University, 2010, Full-time Lecturer, Accounting, sopark@khu.ac.kr

Graduate School
Department of Hospitality and Tourism

Hospitality and Tourism studies at Kyung Hee University include all the main areas such as theory, practice, principles, and philosophies. The degree programs have been designed to provide a broad but thorough study of tourism and tourism-related disciplines while allowing students to pursue their own interests in more specialized aspects of the subject. The Department of Hospitality and Tourism, established in 2001, offers Master's a broad but thorough study of tourism and tourism-related disciplines weputation as a center for the study of hospitality and tourism.

The educational objectives of this department are:
- to develop theories of hospitality and tourism as a separate academic field;
- to provide students with broad knowledge and theory about hospitality and tourism so that they can work as competent experts in the fields of hospitality and tourism;
- to increase students’ competitiveness in the fields of hospitality and tourism as scholars, government officials, policy makers, practitioners, CEOs, and those who can play a major role in the tourism industry and other related fields.

Degree Requirements
- Master’s degree: 24 credits and a thesis are required; Ph.D. degree: 36 credits and a dissertation are required.
- Students with similar or different majors should take prerequisites.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Thesis committee.
- A thesis advisor can be any faculty member from the Hospitality and Tourism Department.

Courses
Exhibition Management, Methodology, Statistics, Negotiation on International Meetings, Planning Trade Shows

**Faculty**

- **Tourism Management**
  - Ki-Jong Lee, Ph.D. Korea University, 1991, Professor, Tourism Policies, leekj@khu.ac.kr
  - Jong-Man Kim, Ph.D. George Washington University, 1986, Professor, Tourism Management, jmkim@khu.ac.kr
  - Seung-Kon Lee, Ph.D. Kyung Hee University, 1995, Professor, Tourism Development & Place Marketing, sklee@khu.ac.kr
  - Tae-Hee Lee, Ph.D. Texas A&M University, 1991, Professor, Tourism Development & Management, taehee@khu.ac.kr
  - Choong-Ki Lee, Ph.D. Texas A&M University, 1992, Professor, Tourism Development & Management, ckle@khu.ac.kr
  - Ji-Hwan Yoon, Ph.D. The Pennsylvania State University, 1996, Professor, Tourism Management, yoon1207@khu.ac.kr
  - Gye-Hee Lee, Ph.D. Purdue University, 2001, Associate Professor, Tourism Management, ghlee@khu.ac.kr

- **Hotel Management**
  - Shin-Ja Park, Ph.D. Saint Louis University, 1977, Professor, Educational Psychology, sjpark@khu.ac.kr
  - Yong-Ju Kwon, Ph.D. Sejong University, 2002, Professor, Hotel & Tourism Management, yjkwon@khu.ac.kr
  - Jong-Woo Byun, Ph.D. Kyung Hee University, 1999, Professor, Tourism & Hotel Information Management, jwbyun@khu.ac.kr
  - Jin-Soo Han, Ph.D. Kyung Sung University, 1999, Professor, Hotel & Restaurant Management, jshan@khu.ac.kr
  - Jin-Chul Shin, Ph.D. Pennsylvania State University, 1998, Associate Professor, Hotel Management, shin0518@khu.ac.kr
  - Jeong-Gil Choi, Ph.D. Virginia Polytechnic and State University, 1999, Associate Professor, Hotel Management, jechoi@khu.ac.kr
  - Won-Suk Suh, Ph.D. Pennsylvania State University, 2000, Associate Professor, Hotel Management, wss114@khu.ac.kr
  - Ok-Mo Ahn, Ph.D. University of Santo Thomas, 1995, Professor, English Education, oman0218@khu.ac.kr
  - Chun-Sung Kim, M.A. St. Louis University, 1976, Professor, Korean Studies, chunsung@khu.ac.kr
  - Byung-Hwan Sung, Ph.D. Sejong University, 1998, Professor, English Syntax, bh sung@khu.ac.kr
  - Young-Ok Lee, Ph.D. Seoul National University, 1987, Professor, English Syntax, yolee@khu.ac.kr
  - Seung-Jae Lee, Ph.D. Ewha Womans University, 1992, Assistant Professor, English Syntax, sjlee@khu.ac.kr
  - David A. Mason, M.A. Yonsei University, 1997, Full-time Lecturer, English Syntax, mntwolf@yahoo.com

- **Tourism Japanese Interpretation**
  - Il-Young Chung, Ph.D. Dongduk Women’s University, 2005, Professor, Japanese Language, sophi@khu.ac.kr
  - Baek Poe, Ph.D. Korea University, 2004, Professor, Comparative Culture Debate of Korea and Japan, poe@khu.ac.kr
  - Sachiko Lee, Ph.D. Hankuk University of Foreign Studies, 2004, Professor, Japanese Literature, sachiko@khu.ac.kr
  - Mari Nago, Ph.D. Hanyang University, 2006, Full-time Lecturer, Japanese Literature, kouta3625@khu.ac.kr

- **Convention Management**
  - Chul-Won Kim, Ph.D. Texas A&M University, 1999, Professor, Leisure and International Tourism Management, cwkim@khu.ac.kr
  - Dae-Kwan Kim, Ph.D. Michigan State University, 1999, Assistant Professor, Leisure and International Tourism, dkdk@khu.ac.kr
  - Bong-Seok Kim, Ph.D. Dresden University of Technology, 2003, Assistant Professor, Tourism Economics and Exhibition Policy Management, herz5@khu.ac.kr
  - Hey-Ryon Lee, Ph.D. Kyung Hee University, 2005, Assistant Professor, Convention Management, leehr@khu.ac.kr
  - Yoo-Sik Yoon, Ph.D. Virginia Polytechnic Institute and State University (Virginia Tech), 2002, Associate Professor, Tourism Management, ysyn@khu.ac.kr
Department of Culinary Science and Food Service Management

The Department of Culinary Science and Food Service Management was established in 2006. The Department built the Institute of Food Service Management to research academic and practical aspects of subjects related to the theories of Culinary Science and Food Service Management.

The educational objectives of this department are:

- to cultivate competent experts and researchers with professional knowledge and practical experience in the field of Culinary Science and Food Service Management.
- to provide students with systematic courses taught by outstanding faculty members so that they can be acknowledged as professionals in both the academic world and the industry.

Based on the educational mission of Kyung Hee, the Department aims to produce competent experts who can combine theories with practice and to educate students to become professionals who can lead the trends of society.

Degree Requirements

- At least 25 course units of graduate level credit in Culinary Science and Food Service Management courses are required for the master’s degree and 36 course units for the doctoral degree.
- Students who have similar or different majors should take prerequisites.
- Students must pass a qualifying examination.
- Students must fulfill the requirements of presentation and thesis.

Courses


Faculty

Kwang-Suck Lee, Ph.D. Dongguk University, 2001, Associate Professor, Baking, koreadclub@yahoo.co.kr
Kyung-Hee Lee, Ph.D. Kyung Hee University, 1999, Professor, Culinary Science, LKHEE@khu.ac.kr
Soo-Bum Lee, Ph.D. Virginia Polytechnic Institute & State University, 1999, Associate Professor, Foodservice
Management, lesoobum@khu.ac.kr
Tae-Hee Kim, Ph.D. Kansas State University, 1998, Associate Professor, Hospitality & Foodservice Management, thkim33@khu.ac.kr
Jae-Yoon Ko, Ph.D. Sejong University, 2000, Associate Professor, Food & Beverage Management, Convention Service Management, jyko@khu.ac.kr
Hye-Hyun Yoon, Ph.D. University of Illinois, 1994, Professor, Food Science, hhyun@khu.ac.kr
Soo-Keun Choi, Ph.D. Youngnam University, 2002, Associate Professor, Culinary Science, skchoi52@khu.ac.kr
Kyu-Wan Choi, Ph.D. Seoul National University, 2007, Assistant Professor, Corporate Finance, kwchoi@khu.ac.kr
La-Na Jung, Ph.D. Yonsei University, 2005, Assistant Professor, Institutional Foodservice Management, dearlana@khu.ac.kr
Jo-Hye Hwang, Ph.D. Pennsylvania State University, 2005, Assistant Professor, Hotel Restaurant, hwangj@khu.ac.kr
Young-Nam Kung, Ph.D. Purdue University, 2007, Full-time Lecturer, Foodservice Management, ynamkung@khu.ac.kr

The Department of Education aims to raise students’ research ability which can contribute to education by methodically understanding and researching professional knowledge in the education field, and to nurture educational leaders with a sense of balance who can flexibly connect knowledge and practice by researching various theories that education-related agencies can apply and advance professional educational knowledge.

The major areas are:
- Educational Technology
- Educational Administration & Business
- Educational Evaluation
- Curriculum Studies
- Philosophy & History of Education
- Educational Psychology
- Educational Counseling

Degree Requirements
- At least 24 course units of graduate level credit in Education courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense and document requirements for the Education thesis committee.
- A thesis advisor can be any faculty member from the Education Department.

Courses
- IT-based Mathematics Instruction, Instructional Systems Design, Computer Application in Educational Technology,

Faculty
In-Ae Kang, Ph.D. Indiana University, 1994, Professor, IST (Instructional Systems Technology), iakang@khu.ac.kr
Eun-Lim Chi, Ph.D. The University of Chicago, 1992, Professor, Educational Evaluation, eunlim@khu.ac.kr
Jin-Ryung Kang, Ph.D. Indiana University, 1992, Professor, Counseling Psychology, treksta@khu.ac.kr
Young-Hak Yoo, Ph.D. Kyung Hee University, 1999, Professor, Political Science, yooyh@khu.ac.kr
Youl-Kwan Sung, Ph.D. University of Wisconsin-Madison, 2004, Professor, Curriculum Theory, yksung@khu.ac.kr
Myung-Hee Yang, Ph.D. Seoul National University, 2000, Professor, Educational Psychology, clara@khu.ac.kr
Young-Ha Cho, Ph.D. The University of Iowa, 2003, Professor, Educational Administration, youcho@khu.ac.kr
Jeong-Gil Woo, Ph.D. Justus-Liebig Uni.-Giessen Germany, 2006, Professor, History & Philosophy of Education, woossia@khu.ac.kr
Jun-Hyung Kim, Ph.D. KAIST, 1989, Professor, Cyber Education, jhkim@khcu.ac.kr
Byung-Ro Lim, Ph.D. Indiana University, 2001, Professor, IST (Instructional Systems Technology), byunlim@khu.ac.kr
Byeong-Chan Kim, Ph.D. Seoul National University, 2002, Professor, Educational Administration, bckim@khu.ac.kr
Il-Seon Choi, Ed.D. The Pennsylvania State University, 2007, Professor, Lifelong Education, education@khu.ac.kr

The graduate program in Child & Family Studies prepares scholars to define problems and conduct rigorous original research that informs policies and practices aimed at supporting the well-being of children and families. A central focus of the program is multiple sources of diversity among individuals and social contexts.

The two major areas are:
Child Development
This interdisciplinary program emphasizes the study of child development in the context of relationships (including peers, teachers, and family) and programs (e.g., early education, parenting interventions).
Family Studies
The Family Studies program focuses on how family relationships develop and change, with particular attention to influences in the larger environment such as gender, age historical period, birth cohort, ethnicity, and socioeconomic status.

Degree Requirements
- At least 24 course units of graduate level credit in Child & Family Studies courses are required for the master’s degree
and 60 course units for the doctoral degree (including units completed in the master’s course).
- All graduate students are required to complete a qualifying examination.
- Students must fulfill presentation, defense, and document requirement for the Child & Family Studies.
- Students earning a M.S. have three committees, and those earning a Ph.D. have five committees. Students are required to have a major advisor from Dept. of Child & Family Studies.

Courses

Common
Statistical Analysis I, Research Methods, Statistical Analysis II

Child Development Major

Family Studies Major
Family and Human Sexuality, Studies on Family and Environment, Special Topics on Family Relations, Seminar in Family Problems, Seminar in Family Development, Special Topics in Family Welfare, Advanced Studies in Family History, Special Topics in Family Sociology, Special Topics in Family Counseling, Advanced Studies in Family Policies, Family Therapy & Counseling, Special Topics in Family Therapy, Special Topics in Family Communication, Family Theories, Special Topics in Marriage and Couple Education, Advanced Gerontology, Advanced Studies on Aging and Family, Comparative Family Studies, Special Topics in Comparative Family, Comparative Family, Seminar in Women’s Problem, Studies in Women’s Problem, Seminar in Women’s Employment and Family, Special Topics in Korean Family

Faculty
Bok-Hee Cho, Ph.D. Oregon State University, 1985, Professor, Child Development, cho0258@khu.ac.kr
Sun-Hee Ahn, Ph.D. Utah State University, 1997, Professor, Child Studies/Early Childhood Education, shahn@khu.ac.kr
Yoon-Ja Oh, Ph.D. Kyung Hee University, 1994, Professor, Family Studies, yoonja@khu.ac.kr
Gye-Sook Yoo, Ph.D. Purdue University, 1995, Associate Professor, Family Studies, dongrazi@khu.ac.kr
So-Jung Seo, Ph.D. Michigan State University, 2003, Associate Professor, Early Childhood Education, seosojun@khu.ac.kr

Laboratories
Child Development Major
- Kyung Hee Child Development Center
Family Studies Major
- Kyung Hee Center for Family Research & Practice

Research Projects
Child Development Major
- Determinants of Korean-Chinese bilingual development among Korean-Chinese children: A longitudinal sequential approach
- Development of early intervention program for young children at risk (Ongoing Projects)

Family Studies Major
• A study on the development of Korean family strengths scales
• Development of on-line education program for family-friendly policies
• Contemporary Korean families in movies
• Public attitudes toward immigration, multicultural families, and social integration policies
• Positive psychology & family therapy

Graduate School

Department of Housing and Interior Design

Tel.: +82 2 961 0256 Fax: +82 2 961 0538 E-mail: hcf21@khu.ac.kr URL: http://housing.khu.ac.kr

The mission of the Department of Housing and Interior Design at Graduate School of Kyung Hee University is to support excellence in graduate education and to enrich leaders in the area of housing and interior design. The program promotes the advancement of higher education and fosters knowledge and creativity that benefits people by implementing research, scholarship, and academic activities. A series of coursework and research experiences facilitates health of people and sustainability of residential environments and explores career paths in advanced professional fields.

Degree Requirements
To pursue the master's or doctoral degree, graduate students must:
• acquire at least 24 credits for master students and 60 credits for doctoral students at the graduate level.
• pass a qualifying exam and a written proposal, and final oral exam.
• complete thesis approved by the graduate studies committee.

Courses
Doctoral Thesis I, II & III
Statistical Analysis II, Advanced Research Methods in Housing and Interior Design, Independent Study III & IV,
Integrative Study in Housing and Interior Design
Master’s Thesis I, II & III
Statistical Analysis I, Research Methodology in Housing and Interior Design, Research Methodology in Interior Design,
Independent Study I & II, Directed Study in Housing and Interior Design
Special Topics in Rural Housing, Housing, Society and Culture, Housing and Social Stratification, Special Topics in
Korean Housing History, Urban Housing Issues, Environmental Psychology and Behavior, Housing Issues and
Multiculturalism
Special Issues in Housing Management, Property Management and Development, Housing and Land Policy, Housing
Management in Contemporary Society, Professional Management of Multifamily Housing, Property Management and
Valuation, Housing Policy Analysis, Housing and Community Dynamics
Special Topics on Integrated Housing Facility Management, Special Topics on Housing Facility Operation and
Maintenance, Special Topics on Sustainable Housing Facility Management, Advanced Studies on Housing Facility
Management, Advanced Studies on Housing Construction Management, Development and Financing of Housing

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Facility Management, Advanced Studies for Sustainable Housing Renovation Strategies, Optimal Investment Decisions on Sustainable Urban Housing Regeneration
Special Topics on Interior Design History, Special Topics on Expression of Koreanity, Special Topics on Interior Coordination, Color Study on Interior Environment, History of Interior Design, Interior Design Studio, Interior Coordination Studio

Faculty
Hyung-Ock Hong, Ph.D. Korea University, 1986, Professor, Housing Studies, hong1215@khu.ac.kr
Hye-Kyung Oh, M.F.A. The Art Institute of Chicago, 1982, Professor, Interior Design, ohk@khu.ac.kr
Seo-Ryeung Ju, Ph.D. Seoul National University, 1995, Professor, Architectural Design & Planning, jcl@khu.ac.kr
Hyeun-Jeong Lee, Ph.D. University of Minnesota, 2003, Assistant Professor, Housing & Community Development, ecohousing@khu.ac.kr
Mi-Jeong Kim, Ph.D. University of Sydney, 2007, Assistant Professor, Design Computing and Cognition, mijeongkim@khu.ac.kr
Jun-Ha Kim, Ph.D. Georgia Institute of Technology, 2009, Full-time Lecturer, Facility Management, junhakim@khu.ac.kr

The Clothing and Textiles Graduate Program offers the Doctor of Philosophy and Master of Clothing and Textiles degrees. The program aims to pursue excellence in research and teaching, and to provide theoretical and applied knowledge of behavioral, aesthetic, scientific and historical aspects of clothing and textiles. The program also provides students the opportunities to broaden their knowledge, academic competency and creativity through various exhibits (in Korea and overseas), international exchanges of fashion arts and academic works, seminars and research activities. Some of the focused research areas by faculty members include: art-to-wear, clothing comfort, aesthetics of dress, history of costume, construction methods of clothing, fashion merchandising, consumer aspects of textiles, cosmetics and clothing.

Degree Requirements
• At least 24 course units of graduate level credit in Clothing and Textiles courses are required for the master’s degree and 36 course units for the doctoral degree.
• Students must pass a qualifying examination.
• Students must fulfill presentation, defense, and document requirements for the Clothing and Textiles thesis committee.
A thesis advisor can be any faculty member from the Clothing and Textiles department.

Courses

Faculty
Choon-Sup Hwang, Ph.D. University of Santo Tomas, 1981, Professor, Fashion Marketing, Costume History, cshwang@khu.ac.kr
Mi-Sook Kim, Ph.D. Ohio State University, 1988, Professor, Draping, Consumer Behavior, mskim@khu.ac.kr
Young-Sun Yoo, Ph.D. Kyung Hee University, 2000, Professor, Fashion Design, Fashion Illustration, Art to wear, ysyoo@khu.ac.kr
Shin-Jung Yoo, Ph.D. North Carolina State University, 1998, Assistant Professor, Functional Fashion Clothing, Innovative Textiles, Human and Clothing, sjyoo@khu.ac.kr

Laboratories
- Fashion Marketing Research Laboratory
  URL: http://clothes.campushomepage.com/
  Director: Dr. Choon-Sup Hwang (ksctfm@naver.com)
  Ongoing Projects
  - How clothing stores response to customer complaints affects future purchase intention
  - An analysis of the domestic casual wear market
  - Life style and clothing purchasing behavior of outlet store consumers by their age
  - The influence of sports sponsorship on sports ware brand equity and purchase intention
  - Men’s purchase pattern of fashion products according to their pursued self-image and fashion life style
  - Buying behavior of eco-friendly fashion products according to eco-friendly attitude
  - The influence of the perceived risk ractors in Internet shopping on the purchase intention by the product type

- Emotion Marketing/Fashion Consumer Behavior Research Laboratory
  URL: http://clothes.campushomepage.com/
  Director: Dr. Mi-Sook Kim (mskim@khu.ac.kr)
  Ongoing Research Projects
  - Research on consumer behaviors for prestige fashion product
  - TV advertisement effectiveness measure of for fashion goods by using EEG patterning
  - Internet shopping behaviors for underwear products
  - Effectiveness of emotion vs. rational appeal type advertisements for fashion
  - A study on fashion product description appeal types and the direction and type of consumer replies in online shopping malls
  - Consumer behaviors for fashion products as determined by climate changes
  - A study on the strategies of the fashion industry toward fast fashion

- Fashion Design/Fashion Illustration Research Laboratory
  URL: http://clothes.campushomepage.com/
Director: Dr. Young-Sun Yoo (ysyoo@khu.ac.kr)

Ongoing Research Projects
- Characteristics of LOHAS fashion represented in Green Design in 2000
- Uniform design development for the functional uniform pavilion of PID (Preview in Daegu) in 2006
- A study on the creative expression of fashion illustration
- A study on light as medium in art-to-wear
- Hybrids in contemporary hair design
- A study on high value added T-shirt design using digital printing
- Uniform design to improve the university’s image
- Creative expression using the scamper technique of fashion illustration

Functional Fashion and Textile System Laboratory
URL: http://clothes.campushomepage.com/
Director: Dr. Shin-Jung Yoo (sjyoo@khu.ac.kr)

Ongoing Projects
- Interactions between Human-Clothing-Environment in clothing systems
- Intelligent clothing utilizing shape memory materials
- Improvement of comfort of work-wear clothing
- Appropriate measurement technique for technical marketing of functional fashion
- Communication between fashion and technology
- Functional clothing planning
- End-Use specific performance of high tech textiles and clothing
- Effects of scientific environmental factors on fashion
- Innovative fashion materials

Graduate School

Department of Mathematics
Tel: +82 2 961 0255, +82 31 201 2404   Fax: +82 2 961 0644, +82 31 204 8122   E-mail: math@khu.ac.kr, mathkk@khu.ac.kr

The Department of Mathematics at Kyung Hee University offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees. The purpose of the graduate program is to give students an understanding of the broad outline of modern mathematics, to stimulate their interest in research, and to prepare them for later work either in pure and applied mathematics or allied sciences. First established in 1959 as the Department of Mathematics and Physics, and reestablished as the Department of Mathematics in 1969, the Department was reconstituted again in 1981 after a short period of operation. The master’s and doctoral programs have been offered since 1965 and 1969, respectively. The Department is a close-knit group of students and professors working together to create a dynamic and stimulating environment that can provide learning opportunities for all. The faculty places high priority on making themselves available to students both in and out of the classroom. All members of the department are active in the mathematical world at large in ways that enhance their foremost concern, excellence in instruction.
Degree Requirements

- At least 24 course units of graduate level credit in Mathematics courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense and document requirements for the Mathematics thesis.

Courses


Faculty

Il-Won Kang, Ph.D. University of Oxford, 1982, Professor, Differential Geometry, ik@khu.ac.kr
Chang-Hoon Park, Ph.D. Massachusetts Institute of Technology, 1987, Professor, Statistics, cpark@khu.ac.kr
Chan-Yong Hong, Ph.D. University of Texas at Austin, 1989, Professor, Algebra, hcy@khu.ac.kr
Jong-Min Han, Ph.D. Seoul National University, 2000, Professor, Analysis, jmh@khu.ac.kr
Young-Min Han, Ph.D. Sungkyunkwan University, 2000, Associate Professor, Analysis, ymh@khu.ac.kr
Se-Goo Kim, Ph.D. Indiana University, 2001, Assistant Professor, Topology, sgkim@khu.ac.kr
Soo-Joon Lee, Ph.D. Seoul National University, 2002, Assistant Professor, Applied Mathematics, level@khu.ac.kr
Kyung-Woo Song, Ph.D. Indiana University, 2002, Assistant Professor, Partial Differential Equations, kysong@khu.ac.kr
Jin-Yong Kim, Ph.D. Korea University, 1987, Professor, Algebra, jykim@khu.ac.kr
Seong-II Park, Ph.D. University of California, Berkeley, 1979, Professor, Statistics, sip@khu.ac.kr
Sung-Nam Ha, Ph.D. University of Texas at Arlington, 1988, Professor, Numerical Analysis, sneha@khu.ac.kr
Byung-Hak Kim, Ph.D. Hiroshima University, 1990, Professor, Differential Geometry, bhkim@khu.ac.kr
Bum-Ill Hong, Ph.D. Purdue University, 1990, Professor, Numerical Analysis, bihong@khu.ac.kr
Chan-Yong Han, Ph.D. Seoul National University, 2002, Assistant Professor, Applied Mathematics, cyhan@khu.ac.kr
Do-Yoon Kim, Ph.D. University of Minnesota, 2005, Assistant Professor, Partial Differential Equations, doyoukim@khu.ac.kr

The mission of the Department of Biology in the Graduate School of Kyung Hee University is to replace mysteries in the living world with understanding. Every piece of discovery and understanding of life leads us to a new world of development in which the sum of our efforts provides the fundamentals of human well-being via diverse humane technologies. The department provides a curriculum at the leading edge to support first-rate graduate students at all levels. There are five majors in the department: Botany, Animal Biology, Microbiology, Molecular Biology, and Environmental Science.
Biology. Directors of fourteen research laboratories in the department have actively participated in many national and public research projects. Recently, the department developed a roadmap to establish the most competitive and specialized research consortium in the area of biomedical sciences. We are about to establish new traditions in biomedical sciences including neuroscience, oncology, and microbial infections. The department also has gained nationwide recognition in animal ecology and ornithology.

Degree Requirements

- At least 24 course units of graduate level credit in Biology courses are required for the master’s degree, 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Biology thesis committee.
- A thesis advisor can be any faculty member from the Biology Department.

Courses


Faculty

Ki-Tae Rhie, Ph.D. University of North Texas, 1990, Professor, Plant Physiology, rkiekt@khu.ac.kr
Ho-Gun Rhie, Ph.D. University of Georgia, 1989, Professor, Microbiology, hgrhie@khu.ac.kr
Suk-Pyo Hong, Ph.D. Uppsala University, 1991, Professor, Plant Taxonomy, sphong@khu.ac.kr
Jeong-Chil Yoo, Ph.D. University of Oxford, 1993, Professor, Animal Ecology, jcyoo@khu.ac.kr
Yun-Hee Kim, Ph.D. Tufts University, 1992, Professor, Developmental Biology, kimy@khu.ac.kr
Yong-Seok Jeong, Ph.D. University of Texas-Austin, 1994, Professor, Virology, yseong@khu.ac.kr
Sang-Hoon Kim, Ph.D. University of North Dakota, 1996, Associate Professor, Animal Physiology, shkim@khu.ac.kr
Ki-Soon Shin, Ph.D. Seoul National University, 1996, Associate Professor, Neurobiology, kisoon_shin@khu.ac.kr
Soon-Ji Yoo, Ph.D. Seoul National University, 1998, Associate Professor, Cell Biology, yoosoonji@khu.ac.kr
Young-Seuk Park, Ph.D. Pusan National University, 1998, Associate Professor, Ecological Informatics, parkys@khu.ac.kr
Sung-Jae Lee, Ph.D. Kyung Hee University, 1998, Assistant Professor, Microbial Genetics, sungjaeelee@khu.ac.kr
Eun-Young Kim, Ph.D. Ehime University, 1997, Assistant Professor, Environmental Chemistry/Toxicology, eykim08@khu.ac.kr
Jin-Woo Bae, Ph.D. KAIST, 2001, Assistant Professor, Microbial Ecology, baejw@khu.ac.kr
Jeffrey S. Owen, Ph.D. State University of New York, 1995, Assistant Professor, Environmental Ecology, jeffreyowen@khu.ac.kr

Laboratories

Environmental Biochemistry Laboratory
URL: http://web.khu.ac.kr/~botany
Director: Professor, Ki-Tae Rhie (rkiekt@khu.ac.kr)

Microbiology Laboratory
Director: Professor, Ho-Gun Rhie (hgrhie@khu.ac.kr)
Graduate students are encouraged to select a supervising professor to guide and direct their academic program as early as possible. Students work closely with their supervising professor to plan and pursue study programs that are geared to their own particular interests and needs. The development of research skills and the identification of a research topic are the critical part of the students' program.

Although the topic of every thesis is unique, most graduate students work in the areas of physical geography, human geography, geographic information science & cartography or regional studies. Computer and laboratory techniques serve the needs of both scientific and humanistic research and teaching which include virtual education, geographic information science, computer cartography, remote sensing, and spatial analysis.

The professional development of students involves education in the discipline’s heritage and philosophy as well as current issues and theories. Interdisciplinary expertise is developed through course work. Students are encouraged to attend and present papers at regional and international conference meetings, and to develop skills in leadership, service, and teaching.
**Degree Requirements**
To obtain a bachelor or doctoral degree of geography, the following requirements are to be satisfied.
- complete at least 24 course units of graduate level credits in Geography for the master’s degree and 60 course units for doctoral degree (including units completed in the master’s courses).
- pass a qualifying examination.
- fulfill presentation, defense, and document requirements for the graduate committee.

**Courses**

**Physical Geography**

**Human Geography**

**Geographic Information Science and Cartography**

**Regional Geography**
Research on Regional Theories, Research on Regional Development, Regional Survey & Analysis, Research Seminar: Geography of North America, Research Seminar: Geography of South America, Quantitative Geography

**Faculty**
Chong-Kyu Kim, Ph.D. Kiel University, 1988, Professor, Climatology, Meteorology, ckkim@khu.ac.kr
Shi-Hak Noh, Ph.D. Georgia Institute of Technology, 1989, Professor, Transportation Geography & Planning, shnoh@khu.ac.kr
Woo-Seok Kong, Ph.D. Hull University, 1989, Professor, Biogeography, Geoecology, wskong@khu.ac.kr
Soon-Ock Yoon, Ph.D. Freiburg University, 1994, Professor, Geomorphology, Quaternary Research, soyoon@khu.ac.kr
Yukiya Tanaka, Ph.D. The University of Tokyo, 1994, Professor, Hydrology, Hillslope Process, ytanaka@khu.ac.kr
Sung-Jae Choo, Ph.D. State University of New York at Buffalo, 1993, Professor, Economic Geography, Regional Development, sjchoo@khu.ac.kr
Chul-Sue Hwang, Ph.D. Seoul National University, 1998, Professor, Cartography, GIS, hcs@khu.ac.kr
Chang-Hyeon Joh, Ph.D. Eindhoven University of Technology, 2004, Associate Professor, Urban Geography, Geosimulation, bwchjoh@khu.ac.kr
Laboratories

- **Geomorphology Laboratory**
  Director: Professor, Soon-Ock Yoon (soyoon@khu.ac.kr)
  Research Overview
  The research at the Geomorphology Laboratory at Kyung Hee University focuses on the study of Quaternary, fluvial geomorphology, coastal geomorphology, weathering and geomorphology of mountains that reconstruct the environments of the past. Also we analyze pollen, grain size, weathering, stratigraphy, and aerial photography for various studies.

- **Hydrology Laboratory**
  Director: Professor, Yukiya Tanaka (ytanaka@khu.ac.kr)
  Research Overview
  The research at the Hydrology Laboratory focuses on the study of hillslope hydrology, soil property, runoff processes, soil erosion and natural disasters. We present a new technique to estimate the spatial distribution of water using special data. Our studies are based on field and laboratory hydrological measurements of rainfall, runoff, soil property, natural disasters such as landslide and flood using equipment such as a weir, tensiometer, vane, and soil moisture meter.

- **Biogeography Laboratory**
  Director: Professor, Woo-Seok Kong (wskong@khu.ac.kr)
  Research Overview
  Research at the Biogeography Laboratory focuses on the ecosystem, landscape and environment of mountain areas, especially on subalpine and alpine belts. Biogeography lab also works on the reconstruction of vegetation history and related environmental issues.

- **Climatology Laboratory**
  Director: Professor, Chong-Kyu Kim (ckkim@khu.ac.kr)
  Research Overview
  The research at the Climatology Laboratory focuses on the study of paleoclimatology and climatic change.

- **Human Geography Laboratory**
  Director: Professor, Shi-Hak Noh (shnoh@khu.ac.kr)
  Associate Professor, Chang-Hyeon Joh (bwcjoh@khu.ac.kr)
  Research Overview
  The Human Geography Laboratory at Kyung Hee University focuses on the study on economic geography, regional geography, regional planning and development, urban geography, transportation geography, tourism geography and so on. Through the research, interactive relationships between human actions, society, and space are analyzed.

- **Geographical Information Science Laboratory**
  Director: Professor, Chul-Sue Hwang (hcs@khu.ac.kr)
  Research Overview
  Research in the Geographical Information Science at Kyung Hee includes topics concerning GIS, cartography, quantitative methods, representation, qualitative methods, remote sensing, visualization, spatial cognition, and education. The Internet website (http://gis.khu.ac.kr) is an academic support unit of the GIS Laboratory, the Department of Geography. We support the university’s mission of instruction, research, and service by designing and producing custom maps and other information graphics for print media.
The mission of the graduate program in the Physics Department at Kyung Hee University is to pursue the discovery of new things in nature. Faculty members and graduate students are actively engaged in research in the field of fundamental aspects of physics such as theoretical particle physics and advanced applied aspects (or areas) such as experimental semiconductor physics. The department is also equipped with the largest cluster of computers for research in complex systems. Noticeable are the collaborative research program with the neighboring institutions, namely the Korea Institute of Science and Technology and Korea Institute of Advanced Studies. More specifically, students are trained to be active researchers and leaders in the following fields after the graduation: research and developments of semiconductor devices, information display, digital communication, space science, and medical instruments. The department is also imparting training to students to become researchers and educators of theoretical physics.

Degree Requirements

- At least 24 course units of graduate level credit in Physics courses are required for the master’s degree and 64 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must acquire a minimum English proficiency test score of TOEIC 700 for the master’s degree, 800 for the doctoral degree.
- Students must fulfill presentation, defense, and document requirements for the Physics thesis committee.
- A thesis advisor can be any faculty member from the Physics department.

Courses

Classical Electromagnetism, Quantum Mechanics, Classical Mechanics, Solid State Physics, Optics, Nuclear Physics, Particle Physics, Advanced Modern Physics, Statistical Mechanics, Semiconductor Physics, Many-body Theory, Quantum Theory of Solids, Advanced Solid State Physics, Special Topics in Solid State Physics, Advanced Applied Physics, Advanced Topics in Applied Physics, etc.

Faculty

Hyun-Jong Shin, Ph.D. KAIST, 1981, Professor, Theoretical Particle Physics, hjshin@khu.ac.kr
Yup Kim, Ph.D. University of Pennsylvania, 1984, Professor, Theoretical Condensed Matter Physics and Statistical Mechanics, ykim@khu.ac.kr
Keon-Ho Yoo, Ph.D. Massachusetts Institute of Technology, 1990, Professor, Experimental Condensed Matter Physics, khyoo@khu.ac.kr
Soon-Keon Nam, Ph.D. Yale University, 1987, Professor, Theoretical Particle Physics (String Theory), nam@khu.ac.kr
Young-Dong Kim, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Experimental Condensed Matter Physics, ydkim@khu.ac.kr
Jin-Mo Chung, Ph.D. Kyung Hee University, 1997, Associate Professor, Theoretical Particle Physics, jmcng@khu.ac.kr
Jeong-Sun Ahn, Ph.D. Osaka University, 1992, Associate Professor, Experimental Condensed Matter Physics,
The Department of Chemistry consists of faculty members and students who actively engage in a broad range of educational activities. Here, knowledge of chemistry is enhanced through intensive course work, laboratory experiments, and individual research. The programs aim to develop students into creative and productive scientists and are tailored largely to the interest of each student, giving each student freedom to schedule his or her course work. Moreover, as skillful instrumentation is essential for speedy and accurate performance, we actively provide our students with instrumentation acquisition training, which is well supported by the university. Our department is a place where the faculty members and students actively interact. It is an open and friendly environment, as well as highly stimulating.

Degree Requirements

- Candidates seeking the master’s degree must publish a research paper in the international journals.
- Candidates for the doctoral degree and candidates for the unified degree must publish three research papers in well-known international journals.
- Candidates for the master’s degree must present their research results at a departmental seminar more than twice. Candidates for the doctoral degree and candidates for the unified degree must present their research results at a departmental seminar more than three times.
- A student who majored in another field must complete basic undergraduate subjects under the approval of the chairman.
Courses

Faculty
Dong-Joon Choo, Ph.D. University of Kansas, 1982, Professor, Organic Chemistry, djchoo@khu.ac.kr
Min-Serk Cheong, Ph.D. Ohio State University, 1987, Professor, Inorganic Chemistry, mcheong@khu.ac.kr
Seung-Min Park, Ph.D. Brown University, 1990, Professor, Physical Chemistry, smpark@khu.ac.kr
Ho-Jung Kang, Ph.D. Ohio State University, 1991, Professor, Organic Chemistry, hjkang@khu.ac.kr
Hai-Dong Kim, Ph.D. Michigan State University, 1989, Professor, Analytical Chemistry, haikim@khu.ac.kr
Hoon-Sik Kim, Ph.D. Yale University, 1986, Professor, Green Chemistry, khs2004@khu.ac.kr
Jung-Ahn Kim, Ph.D. The University of Akron, 1990, Professor, Polymer Chemistry, jakim05@khu.ac.kr
Jae-Yeol Lee, Ph.D. Korea University, 1997, Associate Professor, Organic Chemistry, Medicinal Chemistry, liy@khu.ac.kr
Hyun-Joo Koo, Ph.D. Sungkyunkwan University, 1997, Associate Professor, Physical Chemistry, hjkoo@khu.ac.kr
Jae-Kyu Song, Ph.D. Seoul National University, 2002, Assistant Professor, Physical Chemistry, jaeksong@khu.ac.kr
Sang-Soo Hah, Ph.D. Seoul National University, 2001, Assistant Professor, Biochemistry and Bioorganic Chemistry, sshah@khu.ac.kr
Je-Seung Lee, Ph.D. Korea University, 2004, Assistant Professor, Inorganic Chemistry, leejs70@khu.ac.kr
Joo-Hoon Kim, Ph.D. University of Texas at Austin, 2007, Assistant Professor, Analytical Chemistry, jkim94@khu.ac.kr

Laboratories
- Organic Photo Chemistry Laboratory
  URL: http://web.kyunghee.ac.kr/~chemi/orgphoto/home.htm
  Director: Professor, Dong-Joon Choo (djchoo@khu.ac.kr)
- Inorganic Chemistry Laboratory
  URL: http://web.kyunghee.ac.kr/~greencem
  Director: Professor, Min-Serk Cheong (mcheong@khu.ac.kr)
- Nano-Bio Spectroscopy Laboratory
  URL: http://web.khu.ac.kr/~mpdl
  Director: Professor, Seung-Min Park (smpark@khu.ac.kr)
- Organic Synthesis Chemistry Laboratory
  URL: http://web.kyunghee.ac.kr/~chemist/home.htm
  Director: Professor, Ho-Jung Kang (hjkang@khu.ac.kr)
- Analytical Instrumentation Laboratory
  URL: http://web.kyunghee.ac.kr/~chemi/anal-inst/home.htm
  Director: Professor, Hai-Dong Kim (haikim@khu.ac.kr)
- Green Chemistry Laboratory
  URL: http://web.kyunghee.ac.kr/~greencem
  Director: Professor, Hoon-Sik Kim (khs2004@khu.ac.kr)
- Polymer Chemistry Laboratory
  Director: Professor, Jung-Ahn Kim (jakim05@khu.ac.kr)
- Medicinal Chemistry Research Laboratory
  Director: Professor, Jae-Yeol Lee (liy@khu.ac.kr)
- Computational Solid State Chemistry Laboratory
  URL: http://web.khu.ac.kr/~soacom
  Director: Professor, Hyun-Joo Koo (hjkoo@khu.ac.kr)
Graduate study in the Department of Food and Nutrition at Kyung Hee University offers a strong academic program through a variety of courses and research activities in nutrition, food science, and food service management. Many diverse research opportunities are available as a graduate student (check listing of faculty research areas). The students have access to excellent research facilities including food analysis and chemistry, fermented food and quantity food, food safety and quality, public health nutrition, cellular and molecular nutrition, and human nutrition laboratories. After graduation, students are prepared for scientific and technical careers in the industry, educational institutions, government agencies, and healthcare facilities.

Degree Requirements
- At least 24 credits are required for the master’s degree and 36 credits for the doctoral degree in the graduate level of Food and Nutrition coursework.
- Students are required to pass the qualifying examination, defense their thesis or dissertation, and submit a hard copy of thesis or dissertation for the degree.
- For master degree, the student must submit research paper to the benefit accredited journal by the national research foundation of Korea or SCI(E) for publication. For doctoral degree, the student must publish research paper to the SCI(E) Journal.

Courses
Advanced Human Nutrition, Carbohydrate and Lipid Chemistry Metabolism, Techniques in Nutrition Research, Protein Foods, Advanced Food Preparation, Cereal Foods, Food Rheology, Food Safety, Special Topics in Food Chemistry, Food Service System Management, Special Topics in Food Processing and Preservation, Research in Food Preservation, Nutrition Education, Nutritional Epidemiology, Ecology of Nutrition, Food Quality Evaluation

Faculty
Young-Soon Lee, Ph.D. Ochanomizu University, 1999, Professor, Food Science, yysllee@hanmail.net
Myung-Joo Han, Ph.D. University of Tennessee, 1989, Professor, Food Science, mjhan@khu.ac.kr
Se-Young Oh, Ph.D. University of Connecticut, 1990, Professor, Nutrition, seyoung@khu.ac.kr
Ja-Yong Chung, Ph.D. Tufts University, 2001, Associate Professor, Molecular Nutrition, jchung@khu.ac.kr
Ki-Sun Yoon, Ph.D. University of Rhode Island, 1990, Associate Professor, Food Safety and Quality, ksyoon@khu.ac.kr
Yun-Sook Lim, Ph.D. Ohio State University, 2003, Assistant Professor, Human Nutrition, ylim@khu.ac.kr

Laboratories

FOOD SCIENCE

Food Analysis and Chemistry Laboratory

Director: Young-Soon Lee (yyslee@hanmail.net)

The aim of the Laboratory of Food Analysis and Chemistry is to provide students with a theoretical and practical background necessary for an integrated approach in the field of Food Science and Technology. It is specialized in the development of analytical methodology for the detection and quantification of substances in various foods. The research of Food Analysis and Chemistry Lab has focus on the development of innovative analytical techniques for quality control of food with particular emphasis on the chemistry (biochemistry and analysis) of the Maillard reaction. In addition, research has also been conducted on the isolation and identification of natural antioxidants and assessment of their antioxidant properties.

Ongoing Research Projects
- The enolization of reducing sugars in the course of Maillard reaction and caramelization
- The racemization of amino acids enantiomers and peptides
- The formation of furfural compounds in the Maillard reaction
- Interactions of melanoids and antioxidant activity
- The molecular weight distribution of melanoids
- Development of in vitro methodology for the prediction of natural antioxidants

Fermented Food and Quantity Food Laboratory

Director: Myung-Joo Han (mjhan@khu.ac.kr)

Fermented food contains primary and secondary products having biological activities in human being. Therefore, if it can be developed as functional food, it is valuable. The research focuses on the scientific approach of traditional fermented food (soybean paste, soy sauce, and kimchi) and yogurt. Healthful menu items in a meal are introduced in quantity food service. The efficiency and effectiveness of quantity foodservice system are important. Meal satisfaction makes employees do a good job performance and reduce turnover rate. We are studying on customer satisfaction and employees satisfaction in food service system by using several instruments.

Ongoing Projects
- The preference of processed food and recognition of food & nutrition labeling by middle school students
- An attitude about reduction of environmental pollution and school lunch leftovers in middle school students
- The quality characteristics and biological activities of fermented ginseng wine
- The development of Chungkukjang by using rice hull powder as a starter
- The quality characteristics of traditional soy sauce with and without heat treatment
- The isolation of Bifidobacterium from Korean and using this Bifidobacterium in fermented foods
- The characteristics of soyasaponin metabolism by human gut microorganism and availability in humans

Food Safety and Quality Laboratory

Director: Ki-Sun Yoon (ksyoon@khu.ac.kr)

Research being conducted in our laboratory is in the general areas of food safety and quality evaluation. Our research emphasizes microbial safety and quality characteristics of refrigerated, ready to eat and frozen food, development of predictive model for growth and survival of food borne pathogens, control of stressed and injured pathogens, predictive microbial modeling and its application in microbial risk assessment (MRA) and HACCP, HACCP-based food safety education.

Ongoing Research Projects
- A study on effective risk management of ready-to-eat foods via application of predictive models
- Growth kinetics of foodborne pathogens on ready to eat foods and control measures
- Model development of antimicrobial activity of natural antimicrobial to control the risk of stressed pathogens
- Microbial risk assessment and HACCP application in the food industry
- Quality evaluation of minimally processed, fresh-cut produce and determination of shelf life
- Efficacy of sanitizer in reducing the populations of pathogenic microorganisms on fresh cut produce

**NUTRITION**

**Public Health Nutrition Laboratory**
Director: Se-Young Oh (seyoung@khu.ac.kr)
Our research had focused on the issues related to nutritional epidemiology, nutrition education, nutrition policy as well as cultural aspects of food and nutrition. It includes the prevention of disease, identifying the relationships between health/nutrition and various environmental exposures, designing and evaluating educational (or technical) intervention strategies and studying implications for nutrition policies and programs. We are currently investigating the role of dietary factor on allergic disease such as atopic dermatitis and asthma, or heavy metals in children studies of diverse type such as nationwide study, prospective cohort study, or case-control study. Also, we are conducting to develop standardized questionnaire measuring household food insecurity in Korean.

**Ongoing Research Projects**
- The role of antioxidant nutrients and gene polymorphism in child atopic dermatitis and its associations with behavior problems
- Planning of cohort construction for children’s growth and development research
- Children’s health and environmental research (CHEER) project
- Center of mother and children’s health and environment (MOCHE)
- Development and validation of measure of Korean household food insecurity

**Cellular and Molecular Nutrition Laboratory**
Director: Ja-Yong Chung (jchung@khu.ac.kr)
Our research focuses on elucidating the molecular mechanisms regulating metabolism of essential minerals and understanding how the mineral homeostasis is altered under various conditions such as chronic alcohol exposure and obesity, etc. Genetic factors that influence the nutrient metabolism are also currently investigated in our laboratory.

**Ongoing Research Projects**
- The role of antioxidant nutrients and gene polymorphism in child atopic dermatitis
- Salt sensitivity and related gene polymorphisms in the development of hypertension
- Effects of retinoic acid and vitamin E on the ethanol-induced hepatocyte proliferation
- Influences of iron transporters on the lead-induced neurotoxicity in the central nervous system
- The role of hepatic hormone hepcidin in the body iron metabolism

**Human Nutrition Laboratory**
Director: Yun-Sook Lim (ylim@khu.ac.kr)
Research in Human Nutrition Laboratory is focused on effects of antioxidant and anti-inflammatory nutrients on inflammatory responses and oxidative stress in aging related chronic diseases such as obesity, diabetes, metabolic syndrome, etc and their complications in humans and animals.

**Ongoing Research Projects**
- Effect of Conjugated Linoleic Acid (CLA) on the cutaneous wound healing
- Effects of dietary antioxidants on the inflammatory stage of cutaneous wound healing in diabetes
- Effect of dietary antioxidants on the oxidative stress and inflammation response in diabetic nephropathy
- Effect of calorie restriction on inflammatory stage during cutaneous wound healing in high fat diet induced obese rats
Graduate School

Department of Basic Pharmaceutical Science

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Graduate Studies in Pharmacy

Students will develop the ability to reason logically and critically, acquire an appreciation of the contributions of research in the pharmaceutical sciences to the underpinning of advances in the healthcare of the community, and, where appropriate, receive encouragement to pursue research interests. They will also develop learning skills and motivation to provide the basis for self-directed continuing education and acquire knowledge, skills, and attitudes appropriate for further education in any pharmaceutical specialty. Students will demonstrate competence in the application of medical knowledge and attitudes of professionalism to the needs and expectations of company laboratories, government, and school. There are three departments in the graduate school: Department of Pharmaceutical Science, Department of Clinical Pharmacy, and Department of Oriental Pharmaceutical Science. Each department offers a Master’s course, Ph.D. course, and Master-Ph.D. unified course.

Department of Pharmaceutical Science

The Department of Pharmaceutical Science in the Graduate School offers academic/clinic courses that lead to application of the knowledge and research ability in pharmaceutical sciences as well as leadership in the community. We aim to provide world-class education for the next generation of pharmacists and pharmaceutical engineers in careers such as new drug development, structure analysis, hygienic chemistry pharmaceutics, pharmacokinetics, and Herbology in order to contribute to a disease-free society.

Students will:

• study new drug developments including synthetic compounds, natural products, and oriental medical sources.
• have the ability to reason logically and provide the chance to creativity to can contribute to the globalization of the world.
• have the research ability for alternative medicines with understanding of Western and Eastern medicines.
• have teaching skills through hands-on experiences in the laboratory and classes.

Department of Clinical Pharmacy

The Department of Clinical Pharmacy in the Graduate School offers academic/clinic courses that lead to application of the knowledge and research ability in pharmaceutical sciences as well as leadership in the community. We aim to provide world-class education to the next generation of pharmacists and pharmaceutical engineers in careers such as clinical chemistry, clinical pharmacy, hospital pharmacy, new drug development, hygienic chemistry pharmaceutics, pharmacokinetics, and Herbology in order to contribute to a disease-free society.

Students will:

• study new drug development and estimation from clinical data and information.
• have the ability to reason logically and provide the chance to creativity to contribute to the globalization of the world.
• have the research ability for alternative medicines with understanding of Western and Eastern medicines.
• have teaching skills through hands-on experiences in the laboratory and classes.

Degree Requirements

To receive the Master of Science in Pharmaceutical Science, a student must:
To receive the doctoral degree in Pharmaceutical Science, a student must:
* complete a minimum of 36 units for general professional courses.
* satisfy the English proficiency requirement, and
* submit an acceptable thesis to be approved by a faculty committee.

Courses
All courses to be offered are shared by MS courses and Ph.D. courses.
Medicinal Plant and Experimental Pharmaceutical Botany, Pharmaceutical Inorganic Chemistry and Laboratory, Pharmaceutical Biology, Pharmaceutical English, Anatomic Physiology, Physical Pharmacy and Laboratory, Pharmaceutical Organic Chemistry, and Laboratory, Inorganic Pharmaceutical Manufacturing Chemistry, Pharmaceutical Qualitative Analytical Chemistry, Pharmaceutical Quantitative Analytical Chemistry, Instrumental Methods of Structural Analysis, Computer for Pharmacy, Synthetic Organic Chemistry and Laboratory, Biochemistry and Laboratory, Hygienic Chemistry and Laboratory, Microbiology and Laboratory, Pathology, Endocrinology, Pharmacokinetics, Genetic Engineering, Environment Hygienic Chemistry, Industrial Pharmacy, Clinical Pharmacy, Nutritional Chemistry, Chemistry of Chemotherapeutics, Anatomy and Physiology, Pharmaceutics and Laboratory, Pharmacology and Laboratory, Pharmacopoeia and Laboratory, Pharmaceutical Jurisprudence, New Drug Development, Herboligy, Toxicology

Faculty
Se-Young Choung, Ph.D. University of Tokyo, 1987, Professor, Hygienic Chemistry and Toxicology, sychoung@khu.ac.kr
Sung-Hyun Chung, Ph.D. City University of New York, 1987, Professor, Pharmacology, suchung@khu.ac.kr
Jong-Ki Hong, Ph.D. Korea University, 1995, Professor, Pharmaceutical Analysis, jhong@khu.ac.kr
Dong-Hyun Kim, Ph.D. Toyama Medical and Pharmaceutical University, Japan, 1987, Professor, Microbiology and Immunology, dhkim@khu.ac.kr
Kyung-Tae Lee, Ph.D. Catholic University of Leuven, Belgium, 1991, Professor, Biochemistry, ktlee@khu.ac.kr
Yong-Sup Lee, Ph.D. KAIST, 1992, Professor, Organic and Medicinal Chemistry, kyslee@khu.ac.kr
Jin-Hyun Jeong, Ph.D. Stanford University, 1993, Professor, Organic Synthesis and Medicinal Chemistry, jeongjh@khu.ac.kr
Seo-Young Jeong, Ph.D. University of Utah, 1984, Professor, Pharmaceutics, syjeong@khu.ac.kr

Laboratories
- Pharmaceutics & Drug Delivery Laboratory
  Pharmaceutics is the study of the relationships between drug delivery, drug disposition and clinical response. The research areas of pharmaceutics encompass molecular design and evaluation of drug delivery systems, preformulation, physical pharmacy, drug metabolism and transport processes, pharmacokinetics, and pharmacogenomics. With the recent progress in biotechnology, contemporary pharmaceutics places a strong emphasis on understanding and exploiting the principles underlying the delivery of large molecular bioactive entities such as genes or proteins.
- Pharmacology and Clinical Pharmacy Laboratory
  Three research fellows (two majors in cell biology and one in analytical chemistry), four graduate students (two for the master’s program and two doctoral candidates) and one technician are now guided by Prof. Chung-Sung Hyun. We are mainly working on development of anti-diabetic and anti-obesity drugs from natural products. Recently we are also working on mechanism studies of the anti-inflammatory activity of Darae fruits. Working with a pharmaceutical company, the formulation study is nearly completed. Toxicity and clinical study for anti-diabetic agent, developed from a Korean traditional oriental prescription, will be conducted in 2004-2005.
Preventive Pharmacology Laboratory
Preventive pharmacology is to be primarily conducted for the prevention and treatment of public health problems. It also studies food, drugs and environmental phenomena, including the various environmental substances that affect people. This technological science area utilizes the accumulated knowledge on disease prevention and health promotion.

Recently, gerontological and immunological disorders increased all around the world. Our goal is to promote health through researches in order to improve the quality of human life.

The laboratory’s research mainly focuses on herb medicines used for obesity, diabetes mellitus, presbyopia, dermatological, and immunological disorders. Our eventual purpose is to find prevention and treatment through experiments by using the active ingredients of natural products which can be used for new drug and health functional food research and development.

Ongoing Projects
- Mechanism study of toxic chemicals (pediatric drugs, food additives) and the development of safety evaluation method
- Safety Evaluation of Herbal Extracts and Bioactive Components 2 (KFDA)
- Development of health functional food from natural resources
- Skin beauty: anti-wrinkle, anti-melanogenesis and anti-atopic dermatitis
- Protection of eye degeneration
- Improvement of metabolic syndrome: anti-obesity, anti-diabetes and anti-hyperlipidemia
- Development and Industrialization of Health Functional Foods from Marine Natural Resources (KEIT)
- New drug development from natural resources
- Drugs for anti-obesity, anti-diabetes and anti-hyperlipidemia
- Development and Evaluation of an In vitro Model of Obesity and Diabetes (KEIT)

Microbiology & Immunology Laboratory
Most herbal medicines which have been used in China, Korea, and Japan are orally administered to humans. Therefore, their components are inevitably brought into contact with intestinal microflora in the alimentary tract. The intestinal bacteria transform these components before absorption from the gastrointestinal tract. Therefore, intestinal bacteria related to the metabolism of the components of herbal medicines should be an important factor to understand herbal biological activities. Our lab mainly studies the relationship between the metabolism of natural products and their biological activities such as anti-inflammatory, antiviral, and antitumor activities.

Ongoing Projects
- Development of PI3K/AKT inhibitors
- Development of antirotaviral probiotics
- Purification of glycosaminoglycan-degrading enzymes from Bacteroides HJ-15

Pharmaceutical Biochemistry Laboratory
The specialty of this lab is to unravel the molecular mechanisms of signal transduction on cell cycle/apoptosis/differentiation mediating inflammation and its chemoprevention and/or chemotherapy. In addition, we are focused on ADME study in animals as well as bioequivalence study in humans. Alumni who studied in this lab are currently lecturing at universities or working at the labs of well-known domestic pharmaceutical companies. At this time, we have one post-doctoral researcher, 4 graduate students, 1 in combined doctoral and master’s course and 11 in master’s course are putting their best efforts into making the lab as a world-class laboratory.

Ongoing Projects
- Studies on the signal transduction of apoptosis and differentiation by natural/synthetic compounds
- Evaluation of in vitro and in vivo anti-inflammatory activities and their mechanism of various natural/synthetic compounds
- Screening and mechanism of cell-cycle inhibitors isolated from natural compounds
- In vivo and in vitro analytical condition, absorption and metabolism of preclinical drugs
- Bioavailability and bioequivalence study of clinical used drug

Organic & Medicinal Chemistry Laboratory
Medicinal chemistry is at the forefront of drug development, blending synthetic chemistry, molecular modeling,
computational biology, structural genomics, and pharmacology to discover and design new drugs, and investigate their interaction at the molecular, cellular, and whole-animal level. This lab is focusing on the design and synthesis of biologically active lead compounds. Our research interests include the construction of indole library using solid phase reaction, carbohydrate library, and the syntheses of selenofalvonoid and terpenoid compounds. We are also interested on the synthesis of biocative compounds including anti-cancer, anti-inflammatory, and anti-diabetics.

Ongoing Projects

- Development of biologically active compounds for treatment of stroke, cancer, inflammation and Alzheimer’s disease
- Asymmetric syntheses and optical resolution technology for biologically active compounds
- Construction of indole library and carbohydrate libraries

Pharmaceutical Analysis Laboratory

Major research fields of pharmaceutical analysis are focused on drug metabolism, clinical analysis, metabolomics, standardization of herbal medicines, and structural determination of biological active compounds in natural products using analytical instruments such as HPLC, GC/MS, LC-MS/MS, and high-resolution mass spectrometer. Our lab has performed several national projects including monitoring of the environmental pollutants and hazardous substances in biological fluids and dietary supplement samples, to provide risk assessment data. In addition, profiling analysis of endogenous compounds in biological fluids has been established to early diagnosis diseases related with metabolic syndromes.

Ongoing Projects

- Standardization of herbal medicines: Development of analytical method for determination of marker compounds in herbal medicines
- Biomonitoring of hazardous substances in biological fluids
- Drug metabolism of narcotics and medicines in urine and blood
- Profiling of biogenic amines (catecholamines, polyamines and indole amines) in biological fluids
- Structural determination of bio-active compounds in natural products by tandem mass spectrometry

Graduate School

Department of Oriental Pharmaceutical Science

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The mission of the Department of Oriental Pharmaceutical Science is to discover new things about Oriental Pharmaceutical Science, a distinct system of comprehensive pharmaceutical care that has evolved from the traditional philosophies and practices of Southeast Asia, and which has been modernized with current scientific knowledge. Students will develop the ability to reason logically and critically and acquire an appreciation of the contributions of research in the modern and oriental pharmaceutical sciences and acquire knowledge, skills, and attitudes appropriate for further education in any modern and oriental pharmaceutical specialty and demonstrate competence in the application of knowledge and attitudes of professionalism to the needs and expectations as scientists in the associated laboratory of company, government, and school.

Kyung Hee University is one of the first universities authorized to confer a master’s or doctoral degree of Oriental
Pharmaceutical Science in Korea.
The department offers the Master’s course, Ph.D. course, and Master-Ph.D. unified course.

Degree Requirements
• At least 24 course units of graduate level credit in Oriental Pharmaceutical Science courses are required for the master’s degree, 60 course units for the doctoral degree (including units completed in the master’s courses).
• Students must pass a qualifying examination.
• Students must fulfill presentation, defense, and document requirements for the Oriental Pharmaceutical Science thesis committee.
• A thesis advisor can be any faculty member from the Oriental Pharmaceutical Science Department.

Courses

Faculty
Jung-Hye Choi, Ph.D. University of British Columbia, 2006, Associate Professor, Molecular Biology, jchoi@khu.ac.kr
Seon-Pyo Hong, Ph.D. University of Tokyo, 1995, Professor, Natural Product Chemistry Lab, seonhong@khu.ac.kr
Young-Pyo Jang, Ph.D. Seoul National University, 2001, Assistant Professor, Pharmacognosy, ypjang@khu.ac.kr
Jin-Ju Kim, O.M.D., Ph.D. Kyung Hee University, 2001, Assistant Professor, Oriental Physiology, shdwer@khu.ac.kr
Young-Joo Lee, Ph.D. Seoul National University, 2000, Assistant Professor, Pharmaceutics, yj_lee@khu.ac.kr
Myung-Sook Oh, O.M.D., Ph.D. Kyung Hee University, 2006, Assistant Professor, Medical Herbolgy, msohok@khu.ac.kr
Jong-Hoon Ryu, Ph.D. Tohoku University, 1995, Professor, Oriental Herbal Pharmacology and Herbal Prescription Laboratory, jhryu63@khu.ac.kr

Laboratories
Laboratory of Pharmacognosy
Director: Professor, Young-Pyo Jang (ypjang@khu.ac.kr)
Research Overview
The research scope of the pharmacognosy lab covers classic topics of natural products including the isolation of bioactive components from various natural resources and modern topics such as metabolomics-based standardization of botanical drugs and related products. The real-time analysis and identification of natural products and crude drugs is one of the hottest topics in this lab.
Ongoing Projects
• Application of DART-MS on natural products analysis
• Application of chemical fingerprints of crude drugs for the standardization and/or quality control
• Plant metabolomics

Medicinal Plant Garden
The Medicinal Plant Garden, initially established in 1955, was located near the College of Pharmacy building. In 2003, the Medicinal Plant Garden moved to Seocho-gu, Seoul, with more than 500 species of plants in about 700 square meters. The major role of the garden is to keep the species of medicinal plants and provide plant samples for research.

Natural Product Chemistry Laboratory
Director: Professor, Seon-Pyo Hong (seonhong@khu.ac.kr)
Research Overview
Our main research focuses on the method development for several diseases diagnosis and quality control of crude
drugs. Through these research projects, we hope to achieve the popularization and scientification of Oriental medicines.

**Ongoing Projects**

- Development of analytical method for natural products
- Development of diagnostic method for newborn screening

**Oriental Herbal Pharmacology and Herbal Prescription Laboratory**

**Director:** Professor, Jong-Hoon Ryu (jhythu63@khu.ac.kr)

**Research Overview**

The Laboratory of Herbal Pharmacology and Herbal Prescription is focused on the pharmacological effects of various herbal materials and herbal prescriptions which are traditionally established. At first, we are interested in the anxiolytic and anti-depression drugs from these materials. Secondly, we endeavor to search for new drugs from the herbal materials and herbal prescriptions for the ischemic stroke. Moreover, we have investigated the various properties of some single compounds which should be useful for memory deterioration. The ongoing projects are supported by the Korean Government and pharmaceutical companies.

**Ongoing Projects**

- Development of food and medicinal substances possessing anti-depressive effects from natural herbal materials
- A study on Hwang-Ryun-Hae-Dok-tang and its modified agent on the transient ischemic rat model
- Memory-related experiments using the active compound isolated from the natural herbal materials

**Oriental Herbology Laboratory**

**Director:** Professor, Myung-Sook Oh (msohok@khu.ac.kr)

**Research Overview**

Our research at the Oriental Herbology Laboratory focuses on the study of the origin, appraisal, efficacy, clinical application, and processing of medicinal materials such as plants, animals, and minerals. Our lab not only conducts research on the origins and efficacy of the medicinal materials recorded in the classic but also accesses the prescriptive theories.

**Ongoing Projects**

- Pre-clinical study of modified Whangryunhaedok-tang and Sopungsungi-won for developing dementia drugs
- Development of natural functional cosmetic materials using nanofusion technology
- Study on effects of natural products in models of neurodegenerative diseases and on evaluation of toxicity and therapeutic efficacy by preparation and processing

**Oriental Physiology Laboratory**

**Director:** Professor, Jin-Ju Kim (shdwer@khu.ac.kr)

**Research Overview**

Under the motto of ‘the Creation of the Third Medicine’, the Department of Physiology conducts research in vital phenomena, which are the object of Oriental Pharmaceutical Science. For this purpose, researchers reconfirm the Yin-Yang and Five elements theory and apply this theory to the up-to-date experiments so as to establish the base of every field of Oriental Pharmaceutical Science and direct its future.

**Laboratory of Biopharmaceutics**

**Director:** Professor, Young-Joo Lee (yj_lee@khu.ac.kr)

**URL:** http://biopharm.khu.ac.kr

**Research Overview**

Biopharmaceutics aims to ensure that the active substances are being released in the appropriate amounts and with the expected speed at the right locations so as to optimize the effect in the body while minimizing the side effects. The research focus of the Laboratory of Biopharmaceutics is to understand the process of drug absorption, distribution, metabolism and elimination. We are especially focused on the Blood-brain barrier & Blood-cerebrospinal barrier, Herb-Drug interaction, Evaluation of Bioavailability and Bio-equivalence, and related statistical analysis.

**Ongoing Projects**

- The role of transporters in drug absorption, distribution, metabolism and elimination
- Transporter mediated Herb-Drug interaction
Laboratory of Molecular Biology
Principle investigator (PI): Assistant Professor, Jung-Hye Choi (jchoi@khu.ac.kr)

Research Overview
The long-term objectives of our research team are:
- to understand the molecular pathogenesis in the development and progression of various gynecological diseases from endometriosis to gynecological cancers.
- to identify and characterize key molecules and signaling pathways for the therapy of the gynecological diseases (especially, ovarian cancer).
- to identify natural compounds (single and/or multiple) and crude extracts that can target the key molecules or signaling pathways from Korean traditional medicine or folk medicine.
- to characterize the molecular mechanism of action of the natural compounds and crude extracts.

Ongoing Projects
- Chemoresistance in ovarian cancer
  - Study on the molecular mechanism of chemoresistant (Rsf-1, Inflammation, and so on), Identification of chemosensitizer and characterization of its molecular mechanism
- Phyto SERM (Selective Estrogen Receptor Modulator)
  - Identification of phyto SERM from natural source (especially, Korean traditional medicine) and characterization of its molecular mechanism
- Endometriosis
  - Identification of natural compounds or extracts to inhibit the progression of endometriosis and characterization of its molecular mechanism
- Inflammation and cancer
  - Study on the potential role of the prostanoid in ovarian cancer
  - Study on the role of inflammation in tumor microenvironment
- Mutant p53 gain-of-function in cancer
  - Study on the potential role of p53 mutants in the progression of cervical, endometrial, and ovarian cancer cells
- Anti-cancer and anti-inflammatory agents from natural source
  - Characterization of their molecular mechanism

Graduate School
Department of Nursing
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The Department of Nursing aims to produce able nurses who will have leadership and contribute to the construction of a welfare society as well as the academic development of Oriental and Western nursing. The following are specific objectives:
- Students must be prepared with the basic knowledge, skills, and leadership necessary for professional nursing.
- Students must try to solve controversial problems in professional nursing using their creativity.
- Students must develop the approach using Oriental and Western nursing for public health.
- Students must be able to understand the basic knowledge and know-how to apply it.
- Students must be able to teach the knowledge and skills that they acquired.
- Students must obtain the basics to manage their situation as a professional nurse.
Degree Requirements

- At least 24 course units of graduate level credit in Nursing courses are required for the master’s degree but at least 33 course units for the nurse practitioner course and 36 course units for the doctoral degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Nursing thesis committee.
- A thesis advisor can be any faculty member from the Nursing Department.

Courses


Faculty

Hyun-Sook Kang, Ph.D. Seoul National University, 1985, Professor, Fundamental Nursing Science, hyunsuk@khu.ac.kr
Won-Ock Kim, Ph.D. Kyung Hee University, 2001, Professor, Fundamental Nursing Science, kwo704@hanmail.net
Kyung-Sun Hyun, Ph.D. Kyung Hee University, 2001, Professor, Adult Nursing, hks@khu.ac.kr
Jeong-Hwa Kim, Ph.D. Kyung Hee University, 2000, Professor, Adult Nursing, smileprof@khu.ac.kr
Myoung-Ja Wang, Ph.D. Kyung Hee University, 1999, Professor, Community Health Nursing, chundang@khu.ac.kr
Sang-Sook Han, Ph.D. Kyung Hee University, 1998, Professor, Anatomy & Physiology, sshan12@khu.ac.kr
Kwuy-Bun Kim, Ph.D. Kyung Hee University, 1990, Professor, Adult Nursing, kuikim@khu.ac.kr
Hye-Sook Shin, Ph.D. Kyung Hee University, 1994, Professor, Maternity Nursing, suksh@khu.ac.kr
Youn-Jung Kim, Ph.D. Kyung Hee University, 2003, Assistant Professor, Physiology & Pharmacology, yj129@khu.ac.kr
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Ji-In Hwang, Ph.D. Seoul National University, 2001, Assistant Professor, Management, jihwang@khu.ac.kr
Je-A Lee, Ph.D. Case Western Reserve University, 2004, Assistant Professor, Gerontological Nursing, leeja@khu.ac.kr
Hyun-Sook Shin, Ph.D. Yonsei University, 2002, Assistant Professor, Pediatric Nursing, hsshin@khu.ac.kr
Sun-Hee Park, Ph.D. University of Pennsylvania, 2006, Assistant Professor, Community Health Nursing, spark@khu.ac.kr
Hyun-Jeong Shin, Ph.D. Korea University, 2003, Assistant Professor, Maternity Nursing, shinhj@khu.ac.kr
Youn-Hee Jeong, Ph.D. University of Illinois at Chicago, 2007, Full-time Lecturer, Adult Nursing, Pharmacology & Pathophysiology, yeong2@khu.ac.kr
Eun-Kyoung Yun, Ph.D. Seoul National University, 2008, Full-time Lecturer, Nursing Informatics & Management, elyun@khu.ac.kr
Sung-Hee Shin, Ph.D. Kyung Hee University, 2006, Full-time Lecturer, Psychiatric Mental Health Nursing, sunghshin@khu.ac.kr
The Department of Life and Nanopharmaceutical Science was created by the program of Brain Korea 21 (BK21), which is supported by the Ministry of Education and Science. The mission of this course is to train students on the synthetic or natural product derived pharmaceuticals by the discussion on the natural product isolation, mechanism, pharmacology, synthesis, and formulation of leading drugs.

**Degree Requirements**

To acquire the master’s degree, every student is required to meet the following:
- Obtain 24 credits of graduate courses.
- Pass a qualifying examination.
- Make a public thesis presentation.

To acquire the doctoral degree, every student is required to meet the following:
- Obtain 36 credits of graduate courses.
- Pass a qualifying examination.
- Make a public thesis presentation.

For MS & PhD combined course
- Obtain 60 credits of graduate courses.
- Pass a qualifying examination.
- Make a public thesis presentation.

**Courses**


**Faculty**

Dong-Hyun Kim, Ph.D. Toyama Medical and Pharmaceutical University, 1987, Professor, Microbiology and Immunology, dhkim@khu.ac.kr
Yun-Hee Kim Kwon, Ph.D. Tufts University, 1992, Professor, Developmental Biology, kimyh@khu.ac.kr
Jong-Hoon Ryu, Ph.D. Tohoku University, 1995, Professor, Oriental Herbal Pharmacology and Herbal Prescription Laboratory, jhryu63@khu.ac.kr
Youg-Sup Lee, Ph.D. KAIST, 1992, Professor, Organic and Medicinal Chemistry, kyslee@khu.ac.kr
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The Graduate School in the Department of Dance aims at developing abilities to pursue science and art, producing professional performers artists prominent in skills, theories and creativity, and ultimately raising scholars who will contribute to the artistic enhancement of choreographic arts and arts management in general.

Degree Requirements
- At least 24 course units of graduate level credit in the relevant courses are required for the master’s degree, and 36 course units for doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination (in the major).

Courses

Graduate School

Department of Dance

Tel : +82 2 961 0541  Fax : +82 2 961 0542  E-mail : dance@khu.ac.kr  URL : http://dance.khu.ac.kr

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- Students must pass a qualifying examination (in the major).

Courses

Dance (Master’s degree)

Performing Arts (Doctoral degree)
Major in Dance Studies:
Major in Arts Management:
Cultural Marketing, Organizations and Management for Performing Arts, Theory of Culture & Arts, Seminar in Art Management, Studies in Popular, Thought and Expression of Cultural Arts

Faculty
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Graduate School
Department of Music

Tel: +82 2 961 0571~3  Fax: +82 2 961 0574  E-mail: Khsc1200@khu.ac.kr  URL: http://web.kyunghee.ac.kr/~gskh

The Department of Music aims to foster progressive and professional performers, composers and musicologists who will lead the music of Korea in the 21st century.
Our department is comprised of 18 faculty members and 120 Master’s students majoring in Instrumental Music (Piano, Winds, Strings), Vocal Music, Composition, Accompaniment, Conducting, Multimedia and Musicology. Our Department of Music has a high reputation as the leading institute in the field of music by having produced many leaders in the performing arts and musicology.

Degree Requirements
- Students must take lessons for at least 30 credits.
- Students must pass a qualifying examination.
- Students must give a graduation concert (Instrumental Music, Vocal Music, Composition, Accompaniment, Conducting, Multimedia).
- Students must submit a thesis and give a presentation to the music thesis committee.
- A thesis advisor can be any faculty member in the Music Department.

Courses

Faculty
Joon-Hong Kim, M.A. Accademia Nazionale di Santa Cecilia, 1987, Professor, Composition, jhkim@khu.ac.kr
Laboratories

Multimedia Laboratory

Director: Professor, Joon-Hong Kim (jhkim@khu.ac.kr)

Research Overview

Our research at the Multimedia Laboratory focuses on the study of making music which is both aesthetic and practical. Most of the research performed in the lab takes the form of the multimedia workshop such as recording, mixing, sound design and editing. The focus is on developing advertisement music, drama music, and animation music. There also exists close cooperation with the field so that practical issues can be properly studied.

Graduate School

Department of Fine Art

Tel: +82 2 961 0636  Fax: +82 2 961 0632  E-mail: artwon@khu.ac.kr  URL: http://www.khuart.com

The purpose of this graduate course is to train professional tutorial management personnel who are able to contribute to the advancement of the country’s arts by studying and teaching artistic theory and practice according to the formative method.

Our goal, through the theory and practice of the modern arts, is to enhance the consciousness and expressive abilities, and develop the systemic mutual relationship and artistic qualities of the formative arts in general, thus bringing up professional tutorial personnel.

Korean Painting

Using traditional paintings as a background, it is a course of study creating an original expression of Korean identity and new traditionalism, and creative outlook of the world that corresponds with the era.

Painting

Using modern art’s creative forms, various methods and diverse studies corresponding to its trends as a basis, learn the outlook of the world as an artist.
Studies of sculpture and molding are the main focus of this course. Through experiencing three-dimensional form and various materials and techniques and through practice, students acquire creative artistic views.

**Art Critique, Administration Major**

Studies art criticism, art management, aesthetics, and history of the arts, and especially centers on studies of social applications related to art museums, art galleries, exhibition projects, objects d’art appraisal, and art journalism.

**Degree Requirements**

- At least 24 course units of graduate level credit in Fine Art courses are required for the master’s degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.
- A thesis advisor can be any faculty member from the department.

**Courses**


**Faculty**

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Hyoung-Min Na, Completion of D.F.A. Seoul National University, 2007, Instructor, leesan@khu.ac.kr
The goal of medical education at the Graduate School of Kyung Hee University is, for each and every graduate student, to meet the socially required demands, to develop the full ability to accomplish scientific research, to obtain medical knowledge and technique, and to establish occupational ethics so as to execute medical research by scientific thinking and processes.

Degree Requirements
To acquire the master’s degree in medicine, every student is required to meet the following:
- obtain 27 credits of graduate courses.
- pass both the qualifying exam and an English test.
- make a public thesis presentation.
To acquire the doctoral degree in medicine, every student is required to meet the following:
- obtain 36 credits of graduate courses.
- pass both the qualifying exam and an English test.
- make a public thesis presentation.

Courses
Common Courses
Medical Statistics, Oncology, Topics in Surgery, Writing and Publication of Papers in Medical Science, Ultrastructural Morphology, Clinical Parasitology, Experimental Physiology, Endocrinology, Clinical Immunology, Molecular Biology, Methodology of Medical Research, Treatment and Management of Parasitic Diseases, Pharmacology Seminar, Excitability of Nerve, Signal Transduction Biochemistry, Methodology of Molecular Biology, Structure and Function of the Cell, Introduction to Neuroscience, Introduction to Cellular Morphology, Medical Immunology, Human Physiology, Molecular Endocrinology

Elective Courses in Anatomy

Elective Courses in Pathology
Autopsy, Experimental Pathology, Pathology of Inflammation, Pathology of Cardiovascular System, Pathology of Tumor, Pathology of Circulatory Disturbance, Genetic Oncology, Molecular Pathology, Environmental Pathology, Surgical Pathology, Immunopathology, Gastrointestinal Pathology, Bone and Soft Tissue Pathology, Hepatic Pathology, Pulmonary Pathology

Elective Courses in Parasitology
Seminar, Taxonomy of Parasites, Medical Entomology, Bionomics of Parasites, Zoonoses, Protozoal Immunity, Biochemistry of Intestinal Parasites, Tropical Medicine, Physiology of Intestinal Parasites, Epidemiology of Helminth Infection, Parasitic Genetics, Pathology and Pathophysiology of Parasitic Infection, Immunity of Helminthic Infection, Far Advances in Parasitology
Elective Courses in Microbiology
Medical Bacteriology, Microbiological Laboratory Practice, Immunology, Seminar in Microbiology I, Virology, Cellular Immunology, Seminar in Microbiology II, Diagnostic Bacteriology, Molecular Biology, Immunophysiology, Immunological Laboratory Practice, Bacterial Physiology, Oncogenic Virology, Seminar in Microbiology III, Mycology
Elective Courses in Pharmacology
CNS Pharmacology, Autonomic Pharmacology, Cardiovascular Pharmacology, Endocrine Pharmacology, Hematopoietic Pharmacology, Gastroentero Pharmacology, Molecular Pharmacology, Antibacterial Chemotherapy, Psychopharmacology, Immunopharmacology, Renal Pharmacology, Pharmacogenetics, Anticancer Chemotherapy, Toxicology
Elective Courses in Physiology
Elective Courses in Biochemistry
Molecular Cell Biology, Methodology of Biochemical Experiment, Bioenergetics, Amino Acid Metabolism, Carbohydrate Metabolism, Lipid Metabolism, Nucleic Acid Metabolism, Molecular Genetics, Molecular Immunology, Cancer Cell Biochemistry, Polymer Biochemistry, Biomembrane Biochemistry, Human Nutrition, Seminar for Biochemistry, Enzymology
Elective Courses in Preventive Medicine
Methodology of Epidemiologic Investigation, Environmental and Occupational Epidemiology, Health Administration, Statistics in Epidemiology, Environmental Medicine, Social Security System, Management of Chronic Diseases, Occupational and Environmental Toxicology, Health Policy and Management, Community Medicine, Management of Industrial Accidents and Occupational Diseases, Medical Insurance, Epidemiology and Prevention of Cancer, Industrial Medicine, Hospital Administration
Elective Courses in Molecular Biology
Advanced Molecular Biology, Techniques in Molecular Biology, Introduction to Molecular Biology, Molecular Diagnosis, Gene Therapy, Gene Cloning, Structure of DNA, Structure of RNA, Protein Structure, Molecular Virology, Diagnostic PCR, Oncogene, Molecular Biology in Signal Transduction, Molecular Biology in Differentiation, Prokaryotic Gene Regulation, Eukaryotic Gene Expression

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The graduate studies of biomedical science offers the advanced courses in rapidly expanding fields of biomedical science. The goal of our department is for each and every graduate student to meet the socially required demands, to develop the full ability to accomplish scientific research, to obtain knowledge and technique in biomedical science, and to establish occupational ethics so as to execute biomedical research by scientific thinking and processes.

**Degree Requirements**
To acquire the master’s degree in biomedical science or in medicine, every student is required to:
- Obtain 27 credits of graduate courses.
- Pass both a qualifying exam and an English test.
- Make a public thesis presentation.
To acquire the doctoral degree in biomedical science or in medicine, every student is required to:
- Obtain 36 credits of graduate courses.
- Pass both a qualifying exam and an English test.
- Make a public thesis presentation.

**Courses**
- Required Course
  Biomedical Seminar (I, II, III, IV)
- Common Course
  Advanced Immunology, Basic Neuroscience, Bioinformatics, Cancer Cell Biology, Developmental Biology of the Nervous System, Endocrine Immunology, Far Advances in Parasitology, Free Radical Biology, Functional Proteomics, Human Physiology, Introduction to Cellular Morphology, Mechanism of Angiogenesis, Medical Immunology, Medical Neuroanatomy, Methodology of Immunological Research, Methodology of Molecular Biology, Molecular Endocrinology, Molecular Oncology, Neuro-Pathology, Signal Transduction Biochemistry, Structure and Function of the Cell

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Graduate programs at the Department of Dentistry lead to an advanced academic degree, either the master of science (M.S.D.) or the doctor of philosophy (Ph.D.) in basic and clinical dental fields. These programs have a strong research orientation and require a thesis. M.S.D. and Ph.D. programs in basic dental sciences permit the students to focus on one of the following tracks: dental materials, community dentistry, craniofacial morphology and function, oral molecular, cellular and systems biology, and oral diseases including infectious diseases. Programs are also available for those who wish to pursue a graduate degree in the clinical dental sciences concurrently with or without clinical special education of Operative Dentistry, Prosthodontics, Oral and Maxillofacial Surgery, Pediatric Dentistry, Periodontology, Orthodontics, Oral and Maxillofacial Radiology, and Oral Medicine. Welcoming the challenges of the 21st century, the College of Dentistry is preparing for its transformation into a system of professional school similar to that of American dental schools.
in which candidates are required to obtain a bachelor’s degree before application. The Dental College employing the new system started in 2003. The new system will be in full operation from 2005. Eventually, graduate studies in dentistry will also adopt a new curricular system and academic degree to meet the need of higher professional expertise in clinical fields and advanced studies in basic dental sciences.

Degree Requirements
- At least 24 course units of graduate level credit in Dentistry courses are required for M.S.D., 60 course units for Ph.D.
- Students are required to take an integrated bloc lecture course in each program.
- Students are required to take at least 9 credits of the required courses in their major for M.S.D., 15 credits for Ph.D.
- Students must pass a foreign language examination and a qualifying test; a total of 18 credits in M.S.D. program and 24 credits in Ph.D. are required to take a qualifying test.
- A thesis

Courses
Biostatistics, Thesis Writing, Research Methodology, Dental Caries Research, Bone and Bone Metabolism, Oral Health Administration and Education, Protein Chemistry, Pain, and Current Topics in Anatomy, Pathology, Physiology, Microbiology, Biochemistry, Pharmacology, Preventive Dentistry, Dental Materials, Operative Dentistry, Prosthodontics, Oral and Maxillofacial Surgery, Periodontology, Orthodontics, Pediatric Dentistry, Oral and Maxillofacial Radiology, and Oral Medicine

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Laboratories

- Testing & Development Center for Dental Materials
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  The Testing & Development Center for Dental Materials was founded on January 17, 2000 to perform the laboratory testing business of dental materials defined in medical devices national laws established in May 2005, and the research and development business of dental materials for domestic manufacture systems. The Center is registered at KFDA as one of representative facilities of testing dental materials with the accepted quality assurance, and has been designated by the Korean Agency for Technology and Standards (KATS), Ministry of Commerce, Industry and Energy (MOCIE) as a managing organ representing Korea in the world business related in ISO TC 106 (International Standardization Organization, Technical Committee 106 for Dental Materials) from 1999 till 2004. The center is divided into the administration party, the testing department and the developmental department, and equipped with 18 specialized staffs, and approximately 50 testing instruments. The center has a system for partnership for high-price testing equipments with equivalent quality manual between us and the other testing facilities. The center has functions including the testing & evaluation business, the research & development business, and the standardization business for all dental materials including dental equipments. The center has some activities including the research financing, the training of specialized researchers, the publication of a journal, the international academic communications, the linked research between basic & applied sciences, the opened partnership for testing facilities,
venture business, internet homepage managements, seminars, etc. The center has goals such as receiving official recognition as a worldwide testing center through the accumulation of fine and standardized technologies for the experiments and the development of manufacturing procedures for dental materials through systemic research. The center’s final goals are to make an image of our university as eminent and trustful, and to make the center globalized, via academic and scientific services for our society and world.

- **Laboratories in association with the Institute of Oral Biology**
  
  E-mail: ljinyong@khu.ac.kr
  
  Director: Professor, Jin-Yong Lee

  As industrial development progresses, the need for better oral health increases. The Institute of Oral Biology was founded to meet the needs of the public. The function of the institute is to support inter-departmental research teamwork, design a new research system, and to plan and conduct institutional projects. Thereby, the institute contributes to the development of dental science and industry. Institute of Oral Biology is composed of 16 departmental laboratories of the College of Dentistry. Research interests of the laboratories include craniofacial development and regeneration of oral tissue, bone and bone metabolic disease, oral cancer and carcinogenesis, biologic effect of irradiation, neuroscience and biology of pain, stress, electrophysiology, food-based vaccine against infectious diseases, implant biology, evaluation and development of dental materials and oral hygienic aids.

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### Graduate School

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The aim of education is cultivating scholarly and capable oriental medical experts. By acquiring knowledge, skill, and value, we contribute to the promotion of health and the prevention and cure of disease. Our nurturing comprehensive faculty provides good grounding in Western medicine and related studies for the creation of the third medicine. Finally, we promote capable leadership, a sense of mission, and humanity to develop oriental medicine and instruct medical service.

#### Degree Requirements

- At least 24 course units of graduate level classes are required for the master’s degree and 36 course units for the doctoral degree.
- Students must pass a qualifying examination and an interview.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.

#### Courses

II, Guidance for Thesis III, etc.

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Laboratories

- General Biology
  - Professor, Min-Kyu Shin (shinmk@khu.ac.kr)
Research Overview
This laboratory will allow students to acquire biological knowledge that is necessary in the Oriental Medicine major.

Ongoing Projects
Development of herb medicine effects on Type-I hypersensitivity by immunomodulation
Change of the acupuncture mediated analgesic effects through modification of specific gene expression

Oriental Pathology
Professor, Kyoo-Seok Ahn (ahnks@khu.ac.kr)
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Professor, Bum-Sang Shim (shimbs@khu.ac.kr)
Professor, Kwang-Seok Ahn (ksahn@khu.ac.kr)
Research Overview
Students will be able to conduct experiments with model animals and apply what they have learned in Oriental Pathology class. This lab course will also help the students to get used to all sorts of oriental medical diagnosis equipment.

Classics of Oriental Medicine
Professor, Chang-Hyun Jeong (jeongch@khu.ac.kr)
Professor, You-Sang Baik (baikys@khu.ac.kr)
Professor, Woo-Chang Chang (jangchang@khu.ac.kr)
Research Overview
In Classics of Oriental Medicine, the students will read the Hwangdjinjeong, the oldest book existing in Oriental medicine. This will help the students to increase their ability to comprehend medical books, and at the same time learn the basic concepts of Oriental medicine.

Medical History
Professor, Nam-II Kim (southkim@khu.ac.kr)
Professor, Wang-Seok Cha (chawung@khu.ac.kr)
Research Overview
The purpose of this course is for students to get used to medical history, in order for them to enhance the power to understand medical books.

Preventive Medicine
Professor, Seong-Gyu Ko (epiko@khu.ac.kr)
Professor, Yong-Cheol Shin (syc99@khu.ac.kr)
Research Overview
Students will obtain all sorts of information about how to prevent a disease from occurring, how to prevent it from getting worse once it’s occurred, and how to prevent it from reoccurring after recovering.

Meridianology
Professor, Hye-Jung Lee (hjlee@khu.ac.kr)
Professor, Sabina Lim (lims@khu.ac.kr)
Professor, Hi-Joon Park (acufind@khu.ac.kr)
Professor, Wung-Mo Yang (ybchae@khu.ac.kr)
Research Overview
The point of this laboratory class is for students to actually feel the meridian and the life brought about from it for themselves. By doing so, students will be able to embody the meridian theory.

Herbology
Professor, Ho-Cheol Kim (hckim@khu.ac.kr)
Professor, Ho-Young Choi (hychoi@khu.ac.kr)
Professor, Young-Min Bu (dockhan@naver.com)
Research Overview
Based on the knowledge acquired in herbology class, this lab course will provide opportunities to actually gather the herbs, examine them and learn to distinguish them from one another. This will promote the efficiency in memorizing the origin, taste, shape, character, and the Qi of each herb. It also will help in learning how to process the herbs into edible drugs and ultimately build the students’ ability to apply what they have learned in clinical practice.

Oriental Pharmacology
Professor, Hyung-Min Kim (hmkim@khu.ac.kr)
Professor, Jae-Young Um (jyum@khu.ac.kr)
Research Overview
Founded in 2003, the oriental pharmacology lab has been promoting both research activities in traditional Korean medicine and the exchange of information on the latest developments in the oriental clinical sciences.

Prescriptionology
Professor, Seong-Kyu Park (comskp@khu.ac.kr)
Professor, Mun-Seok Chang (mschang@khu.ac.kr)
Professor, Wung-Mo Yang (ywmywm@lycos.co.kr)
Research Overview
Once the medicine is prescribed, another important thing is to decide on the most suitable form of the medicine depending on the patient. The purpose of this lab course is to figure out the most convenient form of medicine.

Anatomy
Professor, Hyuk-Sang Jung (jhs@khu.ac.kr)
Professor, Ik-Hyun Cho (ihcho@khu.ac.kr)
Research Overview
This anatomy laboratory class provides the opportunity to experiment what the students learned in anatomy class.

Biochemistry
Professor, Hyeung-Jin Jang (hjjang@khu.ac.kr)
Research Overview
The department of biochemistry researches and analyzes the interrelationship between vital phenomena and Oriental medicine through understandings based on biochemistry and development of problem-solving ability.

Graduate School

Department of Clinical Oriental Medicine
Tel: +82 2 967 2230, +82 2 961 0328    Fax: +82 2 985 5969    E-mail: khsc0700@khu.ac.kr    URL: http://omc.khu.ac.kr

The aim of education is cultivating scholarly and capable oriental medical experts. By acquiring knowledge, skill, and value, we contribute to the promotion of health and the prevention and cure of disease. Our nurturing comprehensive faculty provides good grounding in Western medicine and related studies for the creation of the third medicine.
Finally, we promote capable leadership, a sense of mission and humanity to develop oriental medicine and instruct medical service.
Degree Requirements
- At least 24 course units of graduate level classes are required for the master’s degree and 36 course units for the doctoral degree.
- Students must pass a qualifying examination and an interview.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.

Courses
Methodology for Oriental Medical Research, Advanced Ideas in Phathogenesis on the Symptoms and Signs, Studies in Sasang Medicine, Oriental Medical History,

Faculty
Hong-Jung Woo, Ph.D. Kyung Hee University, 1984, Professor, Oriental Internal Medicine, hjwoo@khmc.or.kr
Jang-Hoon Lee, Ph.D. Kyung Hee University, 1994, Professor, Oriental Internal Medicine, komclive@khmc.or.kr
Young-Chul Kim, Ph.D. Kyung Hee University, 1996, Associate Professor, Oriental Internal Medicine, yckim@khmc.or.kr
Hyung-Sup Bae, O.M.D., Ph.D. Kyung Hee University, 1983, Professor, Oriental Internal Medicine, hsbae@nms.kyunghee.ac.kr, http://om2im.co.kr
Young-Suk Kim, O.M.D., Ph.D. Kyung Hee University, 1985, Professor, Oriental Internal Medicine, yskim@khmc.or.kr, http://om2im.co.kr
Ki-Ho Cho, O.M.D., Ph.D. Kyung Hee University, 1990, Professor, Oriental Internal Medicine, johkiho@khmc.or.kr
Chang-Nam Ko, Ph.D. Kyung Hee University, 1997, Professor, Oriental Internal Medicine, kcn202@khu.ac.kr, kcn202@unitel.co.kr
Sang-Kwan Moon, O.M.D., Ph.D. Kyung Hee University, 2000, Associate Professor, Oriental Internal Medicine, m919k523@unitel.co.kr
Woo-Sang Jung, O.M.D., Ph.D. Kyung Hee University, 2001, Associate Professor, Cardiovascular and Neurologic Diseases (Stroke Center), wsjung@khu.ac.kr
Bong-Ha Ryu, Ph.D. Kyung Hee University, 1984, Professor, Gastroenterology, rbongh@khu.ac.kr
Sang-Hyub Yoon, Ph.D. Kyung Hee University, 1993, Professor, Gastroenterology in Oriental Medicine, sandrock58@nate.com
Jin-Sung Kim, O.M.D., Ph.D. Kyung Hee University, 1997, Associate Professor, Gastroenterology, oridoc@khu.ac.kr
Sung-Ki Jung, O.M.D., Ph.D. Kyung Hee University, 1985, Professor, Oriental Internal Medicine, jskes1@gmail.com
Hee-Jae Jung, O.M.D., Ph.D. Kyung Hee University, 1996, Professor, Oriental Internal Medicine, hanfish@khmc.or.kr
Se-Young Ahn, Ph.D. Kyung Hee University, 1993, Professor, Oriental Internal Medicine, ajhj@unitel.co.kr
Young-Min Ahn, Ph.D. Kyung Hee University, 2000, Associate Professor, Oriental Internal Medicine, omdan@hanmail.net
Byung-Cheol Lee, O.M.D., Ph.D. Kyung Hee University, 2004, Assistant Professor, Department of Internal Medicine, hydrolee@korea.com
Kyung-Sub Lee, Ph.D. Kyung Hee University, 1983, Professor, Oriental Obstetrics & Gynecology, kyungs1@unitel.co.kr
Jun-Bock Jang, Ph.D. Kyung Hee University, 1996, Associate Professor, Oriental Obstetrics & Gynecology, junbock@hanmail.net
Jung-Hoon Cho, Ph.D. Kyung Hee University, 2001, Associate Professor, Oriental Obstetrics & Gynecology, moxa@dreamwiz.com
Chang-Hoon Lee, O.M.D., Ph.D. Kyung Hee University, 1989, Associate Professor, Oriental & Gynecology, lchgdsl@hanmail.net
Jin-Moo Lee, O.M.D., Ph.D. Kyung Hee University, 2003, Assistant Professor, Oriental & Gynecology,
In-Hwa Choi, O.M.D., Ph.D. Kyung Hee University, 1997, Assistant Professor, Otolaryngology and Dermatology, inhwajun@hanmail.net
Won-Cheol Choi, O.M.D., Ph.D. Kyung Hee University, 2006, Associate Professor, Constitutional Medicine, choiwc@khu.ac.kr
Jun-Hee Lee, Ph.D. Kyung Hee University, 2007, Assistant Professor, Sasang Constitutional Medicine, ssljh@hanmail.net

Laboratories

- Sasang Constitutional Medicine
  - Professor, Byung-Hee Koh (kohbh@khu.ac.kr)
  - Professor, Dal-Rae Kim (dallkim@yahoo.co.kr)
  - Professor, Eui-Ju Lee (sasang@khu.ac.kr)
  - Professor, Jun-Hee Lee (ssljh@hanmail.net)
  - Research Overview
    Sasang constitutional medicine is a concept that originated in Korea, emphasizing different treatment and regimen to be served for different people. The lesson will be about the basic concept and the philosophy of Sasang constitutional medicine, focusing on the Donguisusebowon.

- Diagnostics
  - Professor, Young-Bae Park (bmpark@khu.ac.kr)
  - Professor, Young-Jae Park (bmpomd@paran.com)
  - Research Overview
    The objective of diagnostics is to develop students’ ability to diagnose a disease from the standpoint of Oriental medicine, and ultimately prepare them for clinical practice by learning how to identify the pattern of diseases. Also, students will have the chance to learn the background theory and the actual use of latest mechanisms used in clinics for accurate diagnosis.

- Liver System
  - Professor, Hong-Jung Woo (hjwoo@khmc.or.kr)
  - Professor, Jung-Hoon Lee (komclive@khmc.or.kr)
  - Professor, Young-Chul Kim (yckim@khmc.or.kr)
  - Professor, Young-Chul Kim (yckim@khmc.or.kr)
  - Research Overview
    This center takes charge of liver system diseases, hematology, weakness, and immunology (good healthcare). Besides this, it partly deals with vascular diseases in the brain based on the Five Elements theory. Also, a study of muscular diseases and research attached to liver disease is being done based on the meridian theory.

- Heart System
  - Professor, Hyung-Sup Bae (hsbae@nms.kyunghee.ac.kr)
  - Professor, Young-Suk Kim (yskim@khmc.or.kr)
  - Professor, Ki-Ho Cho (johkiho@khmc.or.kr)
  - Professor, Chang-Nam Ko (kcn202@khu.ac.kr, kcn202@unitel.co.kr)
  - Professor, Sang-Kwan Moon (m919k523@unitel.co.kr)
  - Professor, Woo-Sang Jung (wsjung@khu.ac.kr)
  - Professor, Jung-Mi Park (pajama@khu.ac.kr)
  - Professor, Seong-Uk Park (happyomd@khu.ac.kr)
  - Research Overview
    Our role is to treat stroke and heart disease. We have cured thousands of I.P.D. and O.P.D. over the years since 1977. We are doing our best to make Kyung Hee Hospital the best clinic as well as an educational institute.

- Spleen System
  - Professor, Bong-Ha Ryu (rbongh@khu.ac.kr)
  - Professor, Sang-Hyub Yoon (sandrock58@nate.com)
  - Professor, Jin-Sung Kim (oridoc@khu.ac.kr)
Professor, Jae-Woo Park (pjw2907@hanmail.net)

Research Overview
We cover the digestive system by treatment & study of gastrointestinal disease. We deal with tumors by the use of herbs that have the effect of curing digestive carcinoma.

Lung System
Professor, Sung-Ki Jung (jskesi@gmail.com)
Professor, Hee-Jae Jung (hanfish@khmc.or.kr)

Research Overview
We study the etiology, the diagnosis and treatment of pulmonary disease. And as we look at the respiratory system closely related to the qi in Oriental medicine, this department studies symptoms of qi (氣). Also, we develop new treatment of allergic disease and phlegm (痰)-induced disease through clinical research.

Kidney System
Professor, Se-Young Ahn (ajhj@unitel.co.kr)
Professor, Young-Min Ahn (omdan@hanmail.net)
Professor, Byung-Cheol Lee (hydrolee@korea.com)

Research Overview
We have been developing better diagnosis and treatment for urogenital and endocrinological disorders by studying urology, nephrology, andrology, endocrinology and geriatrics.

Gynecology
Professor, Kyung-Sub Lee (kyungsl@unitel.co.kr)
Professor, Jung-Bock Jang (junbock@hanmail.net)
Professor, Jung-Hoon Cho (moxa@dreamwiz.com)
Professor, Chang-Hoon Lee (lchgdsl@hanmail.net)
Professor, Jin-Moo Lee (hanbang62@freechal.com)

Research Overview
We have been trying to prevent and heal all diseases related to women’s physical character such as menstruation, pregnancy, and delivery by the basic theory of Oriental medicine. And we have many kinds of clinics to study the disease related to coldness, infertility, menopausal disorder, and genital organ tumor that is increasing these days.

Pediatrics
Professor, Deog-Gon Kim (deogkk@intizen.com)
Professor, Jin-Yong Lee (yjyee2080@hanmail.net)
Professor, Gyu-Tae Chang (gtchang@hanafos.com)

Research Overview
We help children to grow healthy in physical, mental, emotional and social aspects from birth to adolescence. We perform special studies in an attempt to increase the basal strength in children and prevent diseases of unknown origin, like deficiency symptom, allergic coughing and asthma, convulsive disorder, and motarmal enuresis.

Ophthal-otorhinolaryngology & Dermatology
Professor, Yoon-Bum Kim (kyb0517@khu.ac.kr)
Professor, Hye-Jung Nam (handr90@korea.com)

Research Overview
We are trying to study the disease of ENT and the skin. We understand the external diseases as reflections of internal problems. We also try to produce new medicines in clinical study through combining Oriental and Western medicine.

Neuropsychiatry
Professor, Wei-Wan Hwang (hheuiwan@orgio.net)
Professor, Jong-Woo Kim (aromaq@khu.ac.kr)
Professor, Seung-Hun Cho (chosh@khu.ac.kr)
Professor, Sun-Yong Jung (lovepwr@khu.ac.kr)

Research Overview
We conduct clinical treatment and study for various neuropsychiatric diseases based on the special theory of Oriental medicine, regarding the body and the mind as a whole. The studies are as follows.
First, we research methods that can overcome stress with Oriental medical treatment (herbal medicine, acupuncture). Second, on psychotherapy, we research the method that can relax tension and stabilize the body and mind. Third, on qi (氣), especially by meditation respiration, we are able to control the ANS (autonomic nervous system) and give more affirmative thought and improve the resistance to stress. Lastly, we treat pains such as headaches, the most common symptom among neuropsychiatric diseases these days.

- **Rehabilitation**
  - Professor, Sung-Soo Kim (omdkimss@hanmail.net)
  - Professor, Jong-Soo Lee (jsleeomd@yahoo.com)
  - Professor, Seok-Hee Chung (omdchung@khu.ac.kr)
  - Professor, Mi-Yeon Song (mysong@khu.ac.kr)

  **Research Overview**
  We study various kinds of preservation with the ultimate goal of being able to control systemic and physical balance by various uses of our special Oriental medicine. Now, we treat musculoskeletal diseases and work on the rehabilitation from the sequelae of CVA, industrial disasters, and traffic accidents. We also treat chronic adult diseases by means of fasting therapy as a kind of diet treatment.

- **Acupuncture & Moxibustion**
  - Professor, Chang-Hwan Kim (kchacu@khmc.or.kr)
  - Professor, Sung-Keel Kang (kskacu@orgio.net)
  - Professor, Dong-Suk Park (spark49@yahoo.co.kr)
  - Professor, Do-Young Choi (choi432@unitel.co.kr)
  - Professor, Jae-Dong Lee (ljdaci@khmc.or.kr)
  - Professor, Yong-Suk Kim (ackys@hanmail.net)
  - Professor, Sang-So Nam (dangun66@yahoo.co.kr)
  - Professor, Sang-Hoon Lee (sanghoon_lee@khu.ac.kr)
  - Professor, Yong-Hyun Baik (acumoxa1124@empal.com)

  **Research Overview**
  Our department of acupuncture and moxibustion controls the pain through excellent analgesic effects of acupuncture proved by clinical and experimental research. Also, this department especially focuses on musculo-skeletal disease such as spinal and joint disorders. We also study the new acupuncture therapy such as aqua-, electro-, auricular and laser acupuncture, and have special clinics for smokers, hypometropia and gout.

- **East & West Integrated Medicine**
  - Professor, Jae-Hwan Lew (lewjh@khu.ac.kr)

  **Research Overview**
  This department was founded in order to provide Eastern and Western joint medical practices for both inpatients and outpatients. We take charge of Oriental medical ICU and Oriental medical ER, and we help with Western medical treatment when managing inpatients and outpatients at the hospital of Oriental medicine.

- **Clinical Oncology**
  - Professor, Won-Cheol Choi (choiwc@khu.ac.kr)
  - Professor, Soo-Kyung Lee (sookying@khmc.or.kr)

  **Research Overview**
  The traditional approach of the treatment and management of malignant tumor is investigated. The prevention of cancer, improving of quality of life in patients with cancer, education related with cancer research are also our major research topics.
Modern advanced and developed countries including South Korea have been witnessing the rapid increase of older adults, who may suffer from age-related physical and mental illnesses. The mission of the Graduate Studies in Neuroscience is (1) to identify possible causes of, and to develop new therapeutics for, neurodegenerative diseases, such as Alzheimer’s, Parkinson’s, and Huntington’s diseases and traumatic diseases, such as spinal cord injury and stroke. (2) to provide healthcare professionals with high-standard education and training in geriatrics, and (3) to train research personnel specialized in neuroscience research and devoted to those detrimental illnesses. The highly competent faculty members of the department from diverse research areas make the best of these advantages and have been trying to establish firm integrative network of research and education. Motivated students and trainees sure will enjoy the heuristic courses and creative research experiences within the collaborative environment of the department.

Degree Requirements

- At least 24 course units of graduate level credit in the courses are required for the master’s degree, and 60 course units for the doctoral degree including units completed in the master’s courses.
- Students must pass a qualifying examination for each degree.
- Master students are obliged to present their work in the academic meetings of their specific research field.
- Doctoral students are obliged to get at least two research papers published in prominent academic journals.
- Students must fulfill presentation, defense, and document requirements in the Department Thesis Committee.
- Thesis advisor can be any faculty member from the Department (i.e., either full-time or participating professors).

Courses

Some major courses of the Department are exemplified as follows. Molecular Neurobiology (3 points) involves the comprehensive understanding of the structure and function of nervous system at the molecular level. Molecular Neurogenetics (3 points) aims to identify the molecular links between neuropathophysiological phenomena and underlying genetic defects. Cellular Neurobiology (3 points) tries to explain the functions of the nervous system at cell biological level. Molecular Basis of Neuro-degenerative Disease (3 points) try to explain the molecular mechanisms of, and possible therapeutic approaches for, neurodegenerative diseases, such as dementia, stroke and Parkinson’s diseases. Neuroendocrinology (3 points) focuses on the cross-talks between nervous and endocrine systems. Electrophysiology of the Neuron (3 points) discusses how the membrane potential is regulated and what kinds of ion channels are present in neuronal cells. Neurotransmitter & Synaptic Transmission (3 points) studies the actions and molecular mechanisms of neurotransmitter molecules. Central Nervous System Diseases and Regeneration (3 points) teaches the symptoms, causes, possible therapies for CNS diseases. Seminars in Degenerating Brain Diseases (3 points) deals with the causes and current therapeutic approaches of the neurodegenerative diseases, such as dementia, Parkinson’s, Huntington’s, stroke, and spinal cord injury. In addition, weekly Seminar (3 points) series will provide students for the invaluable opportunity to hear from the competent professional researchers about their recent achievements.

Faculty

Byung-Kwan Jin, Ph.D. Hahnemann University of School of Medicine, 1994, Professor, Neurobiology,
Laboratories

- **Neurodegenerative Disease Research Laboratory**
  
  **Director:** Chair, Professor, Byung-Kwan Jin (bkjin@khu.ac.kr)
  
  **Research Overview**
  The research goal of NDRL is to investigate endogenous neurotoxic factors related to neurodegenerative diseases, and to understand the mechanisms of neuroinflammation by glial activation in neurodegeneration.

  **Ongoing Projects**
  - The roles of endocannabinoid/endovanilloid system in neurodegenerative diseases model such as Alzheimer disease (AD), Parkinson disease and Huntington Disease
  - Understanding of neuroinflammatory environments in neurodegenerative diseases
  - Presence of endogenous inflammatory modulators in neurodegenerative diseases
  - Elucidating the mechanisms of inflammatory modulators in neurodegenerative diseases
  - Drug discovery for regulating the expression of endogenous neurotoxic/neurotrophic factors related to neuroinflammation

- **Mitochondria Research Laboratory**
  
  **URL:** http://www.mitomedicine.kr
  
  **Director:** Associate Professor, Young-Mi Kim Pak (ykpak@khu.ac.kr)
  
  **Research Overview**
  Mitochondria are cellular organelles that are the center for energy production and metabolism. Dysfunction of mitochondria causes a wide range of human diseases including neurodegenerative diseases and metabolic syndrome. A long-term goal of our laboratory is to develop therapeutic interventions for human mitochondrial diseases via activating the mitochondria function.

  **Ongoing Projects**
  - Mitochondria proteomics and genomics
  - Identification of environmental stressors to disrupt mitochondrial function
  - Investigation of novel regulators for mitochondria biogenesis
  - Development of novel therapeutics for human mitochondria diseases by screening mitochondria activators

- **Biological Clock Research Laboratory**
  
  **URL:** http://www.bioclock.kr
  
  **Director:** Associate Professor, Se-Hyung Cho (sehyung@khu.ac.kr)
  
  **Research Overview**
  The focus of BCRL is to identify molecular mechanisms underlying mammalian circadian rhythms, thereby revealing how biological clocks are involved in physiological and pathological states of human beings.
Ongoing Projects
- Presence of endogenous mPER1 splicing variants and their role in the mammalian circadian rhythmicity
- Elucidating the mechanism for the control of neuronal apoptosis by Hes6 transcriptional modulator
- Role of circadian rhythmicity and circadian genes in neuronal cell death
- Novel approaches to the neurodegeneration control by regulation of circadian transcription factors

Spinal Cord Injury Research Laboratory
URL: http://www.sciresearch.co.kr
Director: Associate Professor, Tae-Young Yune (tyune@khu.ac.kr)
Research Overview
The goal of SCI research laboratory is to study the pathological events after spinal cord injury, to verify the molecular mechanism of neurodegeneration and ultimately to find therapeutic agents or treatment that are more effective for spinal cord injury patients.

Ongoing Projects
- Study neuronal and glial apoptosis following traumatic spinal cord injury (SCI)
- Study axon degeneration and demyelination after SCI
- Molecular mechanism of inflammation and oxidative stress after SCI
- Stem cell transplantation and in vivo gene delivery strategy for improving functional recovery after SCI
- Development of artificial nerve system using porous polymeric nerve electrodes for regeneration of spinal cord after injury
- Therapeutic interventions from natural or synthetic compounds for the development of therapeutic drug
- Study the effect of acupuncture on functional recovery and neuropathic pain after SCI

Molecular Neurogenetics Laboratory
Director: Assistant Professor, Hyuk-Wan Ko (hyukwan@khu.ac.kr)
Research Overview
Our lab is focusing on unveiling the molecular mechanism of mammalian specific Hedgehog signaling in neurodevelopment and disease.

Ongoing Projects
- Molecular mechanisms of cell fate determination in spinal cord development
- Better understand how Sonic Hedgehog signaling in mammals transduce through primary cilia
- Role of Hedgehog signaling in neurodegenerative diseases

Graduate School

Department of East-West Medicine
Tel: +82 2 958 9092  Fax: +82 2 958 9083  E-mail: ewmed@hanmail.net  URL: http://web.kyunghee.ac.kr/~ewmed

Kyung Hee University is the best academic institution for the study of East-West medicine in Korea which is the best country to learn traditional medicine due to its long history of preserving and making progress in this field. Among Korean universities, Kyung Hee University has the longest and the most prestigious history and background. Furthermore, Kyung Hee University has a medical school and a traditional medical school at the same time, each of which has the best rating among the medical schools. In addition, Kyung Hee has a school of pharmacy which is also divided into the departments of Western pharmacy and Eastern pharmacy. All these things factored in, no other graduate school is better.
than Kyung Hee University for learning the new paradigm of East-West medicine. The aim of the Department of East-West Medicine is to understand the merits and demerits of Eastern and Western medicine, compensate each other through cooperation, and then realize our own medicine, “the Third Medicine.” There are three main research areas in the Department of East-West Medicine:

1) Acupuncture, Moxibustion & Neurophysiology: to study the mechanism of the preventive and healing effects of acupuncture and moxibustion by neurophysiological methods
2) Acupuncture, Moxibustion, Herb & Immunology: to elucidate the mechanism of the preventive and healing effects of acupuncture, moxibustion and herbs by immunological methods
3) Eastern Medicine & Molecular Biology: to study the mechanism of the preventive and healing effects of Eastern medicine by molecular biological methods

Graduate students in the Department of East-West Medicine will be given various opportunities to experience the latest global trend of scientific research into Eastern medicine and related technologies with their eminent professors.

Degree Requirements
- At least 24 course units of graduate level credit in East-West Medicine courses are required for the master’s degree and 36 course units for the doctoral degree.
- Students must pass a qualifying examination.
- Students must pass a doctoral (or master’s) thesis for a degree.

Courses
East-West Medicine Seminar, Acupuncture & Pain, Acupuncture & Autonomic Nervous System, Acupuncture & Circulatory System, Medical Statistics, Methodology for Medical Research, Advanced Ideas in Oriental Medicine, Immunology, Molecular Biology, Neuroscience, Experimental Physiology, Clinical Pharmacology

Faculty
Byung-Il Min, M.D., O.M.D., Ph.D. Kyushu University, 1990, Professor, Physiology, Acupuncture, Pain, Stress, mbi@khu.ac.kr
Sung-Soo Kim, M.D., Ph.D. New York State University, 1993, Professor, Molecular Biology, sgskim@khu.ac.kr
Dong-Suk Park, O.M.D., Ph.D. Kyung Hee University, 1983, Professor, Acupuncture & Moxibustion, dspark@yahoo.co.kr
Moo-Chang Hong, O.M.D., Ph.D. Kyung Hee University, 1983, Professor, Oriental Physiology, hongmc@khu.ac.kr
Deog-Kon Kim, O.M.D., Ph.D. Kyung Hee University, 1982, Professor, Oriental Pediatrics, deogkk@hanmail.net
Sang-Hyub Yoon, O.M.D., Ph.D. Kyung Hee University, 1991, Associate Professor, Oriental Internal Medicine, shyoon@khu.ac.kr
Si-Young Kim, M.D., Ph.D. Kyung Hee University, 1990, Professor, Internal Medicine, sykim55@chollian.net
Young-Wuk Cho, M.D., Ph.D. Kyung Hee University, 1995, Associate Professor, Physiology, ywcho@khu.ac.kr
Hyun-Su Bae, O.M.D., Ph.D. Illinois State University, 1997, Assistant Professor, Oriental Physiology, hbae@khu.ac.kr

Laboratory
- East-West Medical Institute
What is Information Display?
Nowadays, we can see various information displays such as TV, PC monitor, notebook monitor, mobile phone and PDA windows. Display can be called “windows of industry.” Information Display is a branch of science and technology that studies the development and design, process, simulation and characterization of various display panels. Information display is classified into thin-film transistor liquid-crystal display (TFT-LCD), organic light-emitting diode (OLED), field-emission display (FED), etc. Students in this department study the physics and chemistry of the materials used for displays, design and simulation of display device, TFT array and display systems. In addition the liquid-crystal for LCD, organic semiconductors for OLED and carbon nanotubes for FED are also studied. Students have the chance to study the 3D display, wearable display, and other novel displays.

Graduate Studies in Information Display
Kyung Hee University has an Advanced Display Research Center (ADRC) in conjunction with TFT-LCD National Lab, with facilities to make and characterize TFT-LCD, OLED and FED. Only Kyung Hee has the facility to make TFT based display panels among academic organizations in the world. The Information Display Major pursues three core educational goals; first, training students to become practical research scientists, who will do R&D work on information displays; second, training students in display companies through internships; third, training students as technical managers who can manage display businesses and pursue international careers in display areas. In order to accomplish these goals, 1) we provide courses for students to obtain fundamental knowledge about information display and help them improve their creative ability in areas of currently developed information display such as the flat panel display. 2) we provide several practical educational programs, such as experimental and display industry internships, for students to directly apply their knowledge to real world displays. 3) we provide the opportunity to receive education from such internationally recognized universities as the Ecole Polytechnique in France.

Degree Requirements
- At least 24 course units of graduate level credit in Information Display courses are required for the master’s degree and 36 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Information Display thesis committee.
- A thesis advisor can be any faculty member from the Kyung Hee University.

Courses

Faculty
Jin Jang, Ph.D. KAIST, 1982, Professor, Thin Film Device (Experiment), jjang@khu.ac.kr
Kyu-Chang Park, Ph.D. Kyung Hee University, 1997, Associate Professor, Semiconductor Physics (Experiment), kyupark@khu.ac.kr
Jang-Hyuk Kwon, Ph.D. KAIST, 1993, Associate Professor, Organic Electronic Device (Experiment), jhkwon@khu.ac.kr
Seung-Woo Lee, Ph.D. KAIST, 2000, Assistant Professor, Electronic Circuit (Experiment), seungwoolee@khu.ac.kr
Kwan-Soo Chung, Ph.D. Yonsei University, 1990, Professor, Semiconductors, kschung@khu.ac.kr
Dong-Joon Choo, Ph.D. University of Kansas, 1982, Professor, Organic Chemistry, djchoo@khu.ac.kr
Hyun-Jong Shin, Ph.D. KAIST, 1981, Professor, Theoretical Particle Physics, hjshin@khu.ac.kr
Yup Kim, Ph.D. University of Pennsylvania, 1984, Professor, Theoretical Condensed Matter Physics and Statistical Mechanics, ykim@khu.ac.kr
Keon-Ho Yoo, Ph.D. Massachusetts Institute of Technology, 1990, Professor, Experimental Condensed Matter Physics, khyoo@khu.ac.kr
Yong-Dong Kim, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Experimental Condensed Matter Physics, ydkim@khu.ac.kr
Jae-Wu Choi, Ph.D. University of Nebraska, 1998, Associate Professor, Condensed Matter Physics (Experiment), jaewuchoi@khu.ac.kr
Sung-Wook Min, Ph.D. Seoul National University, 2004, Assistant Professor, 3D Displays, mins@khu.ac.kr
Jung-Ho Kim, Ph.D. University of Illinois at Urbana-Champaign, 2006, Instructor, Optoelectronic Devices (Experiment), jungkohkim@khu.ac.kr
Min-Chul Suh, Ph.D. KAIST, 1998, Associate Professor, Organic Electronics (Experiment), mcsuh@khu.ac.kr
Hyoun-Sik Nam, Ph.D. KAIST, 2004, Assistant Professor, Image and Driving Technology (Experiment), hyounshiknam@khu.ac.kr

**Laboratories**

- Networking Laboratory
  - URL: http://tfilcd.khu.ac.kr
  - Director: Professor, Jin Jang (jjang@khu.ac.kr)
  - URL: http://www.sdtech.co.kr
  - Director: Professor, Jin Jang (jjang@khu.ac.kr)
  - URL: http://adrc.khu.ac.kr
  - Director: Professor, Jin Jang (jjang@khu.ac.kr)
  - URL: http://display.khu.ac.kr
  - Director: Professor, Jin Jang (jjang@khu.ac.kr)

- Organic electronic lab
- Nanomaterial lab
- Clean room
- Simulation & Design room
- Performance measurement room
- Emissive display research room
- Non emissive display research room
- Thin-film characterization room
- Liquid-crystal room
- Circuit & Packaging room

**Research Overview**

Information Display is a branch of science and technology that studies the development and design, process, simulation and characterization of various display panels. Information display is classified into thin-film transistor liquid-crystal display (TFT-LCD), organic light-emitting diode (OLED), field-emission display (FED), etc. Students in this department study the physics and chemistry of the materials used for displays, design, simulation of display device, TFT array and display system. In addition the liquid-crystal for LED, organic semiconductors for OLED, plasma discharge for PDP and carbon nanotubes for FED are also studied. Students have opportunities to study the
3D display, wearable display and other novel displays.

Ongoing Projects

- Development of low temperature process technology and device for TFT-LCD
- Fabrication technology of OTFT-array
- Development of process technology for low temperature poly-Si TFT array
- Development of AMOLED back plane using flexible stainless steel substrate
- Development of fabrication technology for stability analysis of a-Si:H TFT
- 3D TFT-LCD with wire grid technology
- OLED & organic materials
- CNT display & CNT devices
- Simulation & Fabrication of TFT driver circuit
- AMOLED with OTFT backplane

Graduate School

Department of Oriental Medical Philosophy

Tel.: +82 2 961 0672  Fax: +82 2 965 5969  E-mail: khsc0700@khu.ac.kr  URL: http://omc.khu.ac.kr/eng

The aim is to cultivate oriental medical doctors and philosophers who are globally competitive with philosophical analysis of basic principles of oriental medicine and analysis from the aspect of humane studies.

Degree Requirements

- At least 24 course units of graduate level classes are required for the master’s degree and 36 course units for doctoral degree.
- Students must pass a qualifying examination and an interview.
- Students must fulfill presentation, defense, and document requirements in the thesis committee.

Courses


Faculty

Min-Kyu Shin, Ph.D. Kyung Hee University, 1982, Professor, Oriental Medicine, shinnmk@khu.ac.kr
Kyoo-Seok Ahn, O.M.D., Ph.D. Kyung Hee University, 1983, Professor, Oriental Pathology, ahnks@khu.ac.kr
Moo-Chang Hong, Ph.D. Kyung Hee University, 1983, Professor, Oriental Medicine, mchong@khu.ac.kr
Seun-Hoon Choi, O.M.D., Ph.D. Kyung Hee University, 1987, Professor, Oriental Pathology, choish@khu.ac.kr
Our students become oriental medical doctors, philosophers, and historiographers who are globally competitive with philosophical and historical knowledge of basic principles of oriental medicine and an understanding of the whole medical historical system.

Degree Requirements
- At least 24 course units of graduate level classes are required for the master’s degree and 36 course units for the doctoral degree.
- Students must pass a qualifying examination and an interview.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.

Courses

Oriental Medicine
Oriental Medical History of Ancient Times, Oriental Medical History of Koryo Dynasty, Oriental Medical History of Chosun Dynasty, Oriental Medical History of Times under the Japanese Rule, Oriental Medical History of Modern Times, Dongeuibogam, School of Sanghan, School of Hagan, School of Yusu, School of Gongsa, School of Dangye, School of Onbo, School of Onbyung, Introduction of Chinese Medical History

Korean History
Chinese History
History of Asian Ideology, History of JinHan Dynasty, History of SuDang, History of Song Dynasty, History of Ming Dynasty, History of Qing Dynasty, History of Modern China, History of Japan, History of Chinese Yuhak, History of Chinese Education ETC.
Introduction of Medical History, Methodology of Medical History, History of Hospital, History of Health and Disease of Ancient and Middle Age, History of Health and Disease of Modern and Recent Years

Faculty
Nam-Il Kim, O.M.D., Ph.D. Kyung Hee University, 1994, Professor, Medical History, southkim@khu.ac.kr
Chang-Hyun Jeong, Ph.D. Kyung Hee University, 1997, Associate Professor, Classics of Oriental Medicine, jeongch@khu.ac.kr
Wung-Seok Cha, Ph.D. Kyung Hee University, 2001, Assistant Professor, Oriental Medical History, chawung@khu.ac.kr
In-Sung Cho, Ph.D. Sogang University, 1991, Professor, Korean Ancient History, cis5785@hanmail.net
Won-Joon Yoo, Ph.D. Chinese Culture University, 1991, Professor, Oriental Medieval History, wjyoo@khu.ac.kr
Ji-Ho Jeong, Ph.D. Tokyo University, 2001, Professor, Oriental Modern History, jjh@khu.ac.kr
Mhan-Ock Koo, Ph.D. Yonsei University, 2002, Professor, Choson Dynasty History, pero@khu.ac.kr

The graduate program is designed to prepare men and women for successful careers in research and teaching. The program provides students with depth of knowledge and insight into their particular areas of interest and a broad background in the whole area of biology and oriental medicine. Special efforts are made to place the student’s area of interest into proper perspective with the other areas of biology and oriental medicine. All students are encouraged to take appropriate courses in biological sciences, which relate to oriental medicine.

Degree Requirements
- At least 24 course units of graduate level classes are required for the master’s degree and 36 course units for the doctoral degree.
- Students must pass a qualifying examination and an interview.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.
- Students, who have studied Oriental Medicine or any Biological sciences, can receive the Master of Science, Doctor of Philosophy, and Doctor of Oriental Medicine depending on their undergraduate backgrounds.
Courses
Advanced Biochemistry, Advanced Ideas in Oriental Medicine, Advanced Molecular Biology, Advanced Oriental Pharmacology, Advanced Preventive Medicine, Advanced Immunology, Advanced Cell Biology, Advanced Neuroscience, Advanced Medical Microbiology, Chemistry of Natural Products, Human Genomics, Oriental Pathology, Plant Physiology and Metabolism, Medicinal Botany, Oriental Physiology, Health Statistics, Advanced Biotechnology, Doctoral Research, etc.

Faculty
Min-Kyu Shin, Ph.D. Kyung Hee University, 1982, Professor, Oriental Medicine, shinmk@khu.ac.kr
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Hyung-Min Kim, Ph.D. Osaka University, 2003, Professor, Medicine, hmkim@khu.ac.kr
Hyun-Su Bae, Ph.D. Northwestern University, 1998, Associate Professor, Immunology, hbae@khu.ac.kr
Seong-Kyu Park, O.M.D., Ph.D. Kyung Hee University, 1997, Associate Professor, Oriental Medicine, Herbology, comskp@khu.ac.kr
Ho-Young Choi, Ph.D. Kyung Hee University, 1996, Associate Professor, Medicinal Material, hychoi@khu.ac.kr
Bum-Sang Shim, O.M.D., Ph.D. Kyung Hee University, 2000, Associate Professor, Oriental Pathology, shims@khu.ac.kr
Hyuk-Sang Jung, O.M.D., Ph.D. Kyung Hee University, 2001, Assistant Professor, Anatomy, jhs@khu.ac.kr
Hi-Joon Park, Ph.D. Kyung Hee University, 2001, Associate Professor, Acupuncture and Meridian, acufind@khu.ac.kr
Ho-Ja Lee, Ph.D. University of Bonn, 1979, Professor, Molecular Genetics, leehsa@khu.ac.kr
Ho-Gun Rhie, Ph.D. University of Georgia, 1989, Professor, Microbiology, hgrhie@khu.ac.kr
Ki-Tae Rhie, Ph.D. University of North Texas, 1990, Professor, Plant Physiology, rhietk@khu.ac.kr
Yun-Hee Kim, Ph.D. Tufts University, 1992, Professor, Developmental Biology, kimyh@khu.ac.kr
Yong-Seok Jeong, Ph.D. University of Texas-Austin, 1994, Professor, Virology, ysjeong@khu.ac.kr

Laboratories
- Biochemistry Laboratory
  Director: Professor, Hong-Yeoul Kim (hyk@khu.ac.kr)
Research Overview
Biochemistry is the scientific discipline in which the study of the function of proteins is the central theme. Traditionally this is done by using proteins that are purified from natural sources or are obtained after expression of the encoding genes in suitable hosts.
Ongoing Projects
- Biomedical investigation and development of new functional health foods materials
- Research of polyphosphate materials from medicinal herbs

Department of Applied Eastern Medicine
Tel: +82 2 961 0324  Fax: +82 2 961 7831  E-mail: kakm@khu.ac.kr  URL: www.easternmedicine.ac.kr

The educational goal of the Department of Applied Eastern Medicine is promoting human welfare by combining the benefits of Eastern medicine and Western medicine. We objectively inspect the reliability and value of eastern medical
theories. We also develop new and systematic criteria for clinical treatment and research. The global interest in Eastern medicine is expanding abundantly, so there is a need for specialists who can combine Eastern and Western medicine. We prepare qualified students for international knowledge exchange and train them to conduct research for developing new and powerful medical technology in five sub-major divisions.

**Degree Requirements**
- A bachelor’s or master’s degree in eastern medicine, western medicine, biology or biology-related areas is required for admission to all programs.
- At least 24 course units of graduate level credit for the master’s degree and 36 course units for the doctoral degree are required for graduation.
- Students must pass a qualifying examination and an interview in order to graduate.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.
- The thesis advisor position may be filled by more than two faculty members.

**Courses**
- Methodology for Medical Research I-IV, Methodology for Clinical Medical Research I-IV, Medical Statistics I-II
- Public Health Science
- Medical Device Development
- Development of Medical Equipment I-IV
- Meridian Applied Medicine
- Meridian Applied Thesis Research I-IV, Methodology of Meridian Phenomena I-II
- New Drug Development
- Sports Eastern Medicine

**Faculty**
- Seung-Moo Han, Ph.D. State University of New York at Buffalo, 1996, Professor, Biomedical Engineering, smhan@khu.ac.kr
- Jae-Ho Khil, M.D., Ph.D. Palmer College of Chiropractic, 1999, Associate Professor, Sports Medicine/Chiropractic, jhkhil@khu.ac.kr
- Jin-Woo Kim, M.D., Ph.D. Kyung Hee University, 1986, Professor, Internal Medicine, jwkim@khmc.or.kr
- Su-Young Kim, Ph.D. Seoul National University, 2001, Assistant Professor, Public Health, suy0202@intizen.com
- Je-Hyun Lee, M.D., Ph.D. Kyung Hee University, 1999, Associate Professor, Herbology, Processing of Medicinal Material Storage and Distribution of Medicinal Material, leejh@khu.ac.kr
- Sabina Lim, M.D., Ph.D. Kyung Hee University, 1993, Professor, Meridian and Acupoint, lims@khu.ac.kr
- Hyung-Goo Rhee, M.D., Ph.D. Kyung Hee University, 1982, Professor, Allergy, Immune, Pulmonary System, rheeck@khu.ac.kr
- Hee-Sup Shin, M.D., Ph.D. Cornell University, 1983, Professor, Center for Neural Science Korea Institute of Science and Technology, Genetics and Neuroscience, shin@kist.re.kr

**Laboratories**
- East-West Medical Research Institute
  Research Overview
  The purpose of research in the Department of Applied Eastern Medicine is to construct the basis of researching east-
west medical treatments in order to strengthen the international competitiveness of Eastern medicine.

1) Globalization of the teaching staff
   • Reflecting the new faculty’s experience of studying abroad
   • Training professors in the methods of giving lectures in a foreign language
   • Developing a foreign M.D. acupuncture program

2) Developing and supporting a program of international education and interaction
   • Creating international seminars for East-West medical sciences
   • Encouraging students to participate in international seminars more than once a year

Ongoing Projects
1) Development of East-West medical sciences
   • Development of clinical treatments using combined East-West medicine
   • Cost evaluation and development of a decision-making algorithm for East-West medical service

2) Development of applied eastern therapeutic technology
   • Development of new herbal medicines
   • Development of diagnostic and therapeutic systems
   • Studying the mechanism of Eastern medicine

3) Increasing international publication of research findings
   • Promoting the publication of papers in international scientific journals
   • Enforcement of creating faculty incentives for international publication

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Graduate School
Department of Human Informatics of Oriental Medicine

Tel: +82 2 958 9249  Fax: +82 2 958 9241  E-mail: mechante@hanmail.net  URL: http://www.freechal.com/bmpomd

The mission of our department is to develop useful medical techniques by grafting Oriental medicine and engineering, and to train inventive researcher who will contribute to the globalization of oriental medicine.

Biofunctional medicine
The subject of Biofunctional medicine is quantification and modernization of Oriental medicine. We monitor biosignals through an oriental medical point of view. We research & develop modernized medical techniques.

Management of subhealth
Through modernization of various countries’ traditional medicines, we research & develop the management model of subhealth.

Oriental medical information
We aim to construct oriental medical database and research & develop useful database management systems.

Degree Requirements
• Application and degree conferred. To apply to our department, a bachelor’s degree or master’s degree (or an expectant) is required. After graduation, the degree of Oriental Master/Doctor or Engineering Master/Doctor is
• A student who wants a dual degree, (Example: when a degree candidate for the master’s/doctoral degree in medicine wants an Engineering degree) has to acquire the other department’s units in advance. Required units of another department are 6 points (master’s course) or 9 points (doctoral course).
• Academic adviser: 2 professors are needed for paper guidance, one each from the Oriental and Engineering departments.
• The others follow graduate school regulations & detailed rules.

Courses

<table>
<thead>
<tr>
<th>Name</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Informatics 1</td>
<td>The basis of physics, the theories of measurement, principles of measuring instrument and medical practical techniques</td>
</tr>
<tr>
<td>Human Informatics 2</td>
<td>Measurement of human information, computer signal treatment, analysis of medical data</td>
</tr>
<tr>
<td>Human Informatics 3</td>
<td>Measurement and analysis of human’s emotion, and explanation application</td>
</tr>
<tr>
<td>Database Management Systems</td>
<td>Statistical methods and techniques, database construction and management, application in medical field</td>
</tr>
</tbody>
</table>

Faculty

Young-Bae Park, Ph.D. Kyung Hee University, 1985, Professor, Biofunctional Medicine and Diagnosis, bmppark@khu.ac.kr
Hyung-Kyun Koh, Ph.D. Kyung Hee University, 1984, Professor, Acupuncture & Moxibustion, KOH5795@chollian.net
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Seong-Nam Byun, D.Eng Michigan University, 1991, Professor, Ergonomics, snbyun@khu.ac.kr
Hwan-Sup Oh, D.Eng Kyung Hee University, 1985, Professor, Applied Mechanics (Fatigue and Fracture), shoh@khu.ac.kr
Hyon-Soo Lee, D.Eng Keio University, 1985, Professor, Nerve Network, leehs@khu.ac.kr
Young-Ha Kwon, D.Eng University of Illinois at Chicago, 1987, Professor, Human Sensibility Ergonomics, yhkwon@khu.ac.kr
Min-Yong Kim, D.Eng Kaist, 1994, Assistant Professor, Data Mining, andy@khu.ac.kr
Young Heo, D.Eng Hanyang University, 1980, Image Signal Processing, yhuh@keri.re.kr
Sang-Chul Lee, Ph.D. Asian Center for Theological Studies and Mission, 1995, Building Web Database, leecho@keu.ac.kr
Medical engineering is a discipline that advances knowledge in engineering, biology, and medicine, and improves human health through cross-disciplinary activities that integrate the engineering sciences with the biomedical sciences, diagnosis, treatment, prevention of the disease, and clinical practice. However, as various research institutes from Kyung Hee Medical Center conducted clinical research, there was a lack of opportunity to build up inter-disciplinary professionals in the medical engineering fields due to the insufficient education and supporting programs regarding current research areas. Program of medical engineering can support development of cutting edge medical technique and cultivation of multi-disciplinary professionals by utilizing medical staff in the Kyung Hee Medical Center, basic scientists from school of Engineering and Science.

Degree Requirements

- Master’s degree: 24 credits and a thesis are required.
  Ph.D. degree: 36 credits and a thesis are required.
- Students with similar or different majors should take prerequisites.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the thesis committee.

Courses

Common Courses
Introduction to the Biomedical Engineering, Medical Application of Biomechanics, Clinical Informatics, Biostatistics, Understanding of Life, Methodology of the Study of Acupoints, Methodology of the Study of Meridian, Principle of Meridian, Physiology, Etiology, Bioengineering of Dentistry, Dental Biomaterials, Biomechanics in Dental Orthodontics, Introduction to Dental Materials, Testing Procedures in Biomaterials & Instruments, Pathophysiology, Biomaterials, Polymeric Drug Delivery System

Elective Courses in Medicine
Understanding of Biosignals, Rehabilitation Engineering, Medical Application of Tissue Engineering, Human Physiology for Engineer, Cognitive Neuro Science, Understanding of Nano Technology, Pharmacogenomics and Fusion Science, Methodology in Genomics, Clinical Trial and Bioengineering, Clinical Trial and Industrial Medicine, Applied Molecular Biology, Genomic Medical Informatics

Elective Courses in Dentistry
Restorative Dental Materials, Dental Materials for Oral & Maxillofacial Plastic Surgery, Specifications for Dental Materials, Dental Adhesives, Esthetic Dentistry, Maxillofacial Imaging, Dental Metallurgy, Dental Implantology, Dental Polymeric Materials, Cephalometric Analysis

Elective Courses in Oriental Medicine
Anatomy of Acupuncture Points, Human Morphology in Oriental Medicine, Pathology of 5 Phases, Theory of Pattern Identification Palpation, Functional Anatomy, Biofunctional Medicine, Biomedical Measurement, Biosignal Interpretation, Electronic Acupuncture
Elective Courses in Nursing Science
Genomics and Nursing, Human Physiology, Neuroscience I, Neuroscience II, Neuroscience III
Elective Courses in Environment and Applied Chemistry
Biomaterials in Pharmaceutical Sciences, Polymer Synthesis and Characterization, Biopolymer I, Biopolymer II, Tissue Engineering

Faculty
Hun-Kuk Park, M.D., Ph.D. Rutgers University, 1993, Professor, Biomedical Engineering, sigmoids@khu.ac.kr
Joo-Ho Chung, M.D., Ph.D. Kyung Hee University, 1990, Professor, Pharmacology, jhchung@khu.ac.kr
Sung-Vin Yim, M.D., Ph.D. Kyung Hee University, Assistant Professor, Pharmacology, ysvin@khu.ac.kr
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Seung-Woo Lee, Ph.D. Kyung Hee University, Assistant Professor, Nanomaterials and Devices, seungwoolee@khu.ac.kr
Kyu-Chang Park, Ph.D. Kyung Hee University, 1997, Assistant Professor, Nanomaterials and Devices, kyupark@khu.ac.kr
Jae-Hyung Park, Ph.D. GIST, 2002, Assistant Professor, Biomedical Polymers, jaehyung@khu.ac.kr
Yoon-Hyuk Kim, Ph.D. KIST, 2000, Assistant Professor, Mechanical Engineering, yoonhkim@khu.ac.kr

Graduate School

Department of Medical Science of Meridian

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After graduation, the students will be granted Ph.D. or Ms of Philosophy, Medical Science or Oriental Medical Science, and work as researchers not only in Oriental Medicine in Korea but also in complementary, alternative and integrative medicine abroad, professors of Universities or Colleges, professional researchers of Korea Institute of Oriental Medicine and other national research institutes, pharmaceutical companies, and biomedical engineering industries, etc.

- In Sep. 2007, Department of Medical Science of Meridian was launched as an interdisciplinary graduate program within the Acupuncture & Meridian Science Research Center (AMSRC) at Kyung Hee University.
- In Nov. 2007, recruitment and registration of graduate students (Ph.D. or Ms courses)
- In May 2008, 1st spring semester classes started.
Degree Requirements

- At least 18 course units of graduate level credit in Medical Science of Meridian courses are required for the master’s degree; 24 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.

Courses

For the internationalization and globalization of Korean medicine, based on the traditional meridian theory, the department strives to nurture highly qualified researchers possessing profound knowledge on meridian system, clinical application capability and sophisticated experimental technology, and to provide interdisciplinary education program to develop the scientific and objective methodologies to assess acupuncture & meridian theories for the graduate students in the department.

In Sep. 2007, the Department of Medical Science of Meridian was launched as an interdisciplinary graduate program within the AMSRC, established at Kyung Hee University with the financial support from the Korean Ministry of Science & Technology in 2005. With an objective of the scientific remodeling and globalization of Korean traditional medicine, especially acupuncture and meridian theory, the program is focusing on nurturing highly qualified researchers required for the academic, clinical, and industrial fields of complementary and integrative medicine, and acupuncture & meridian sciences, and providing highly sophisticated curriculums and education programs in clinical & basic research for academic organization of oriental medicine and local oriental physicians in Korea or other countries. Also the program has a final destination of eventually achieving the construction of research platform and interdisciplinary education protocols, suitable for studying both the integrative medicine, based on Korean traditional medicine, and advanced medical science. The program lecturers comprise of 10 professors whose majors are Korean medicine, neurobiology, molecular biology, biophysics, pharmacology, veterinary acupuncture, molecular imaging, biomedical engineering, genomics, proteomics, etc. Through this program, the education capability of the AMSRC will improve and a number of knowledgeable scientists with world-class experimental technology of meridian science will be bred.

1) Meridian Theory 2) Acupoints & Meridians
3) Clinical Studies of Meridians 4) Veterinary Acupuncture
5) Genomics & Bioinformatics 6) Biophysics for Meridian Science
7) Meridian Science for Public Health 8) Neurobiology
9) Molecular and Cellular Biology 10) Theory of Qi-Gong
11) Pharmacology for Meridian Science 12) Biomedical Engineering for Meridian Science

Faculty

Hye-Jung Lee, K.M.D., Ph.D. Kyung Hee University, 1986, Professor, Oriental Medicine, hjlee@khu.ac.kr
Dae-Hyun Hahm, Ph.D. KAIST, 1994, Associate Professor, Biotechnology, dhhahm@khu.ac.kr
Hi-Joon Park, K.M.D., Ph.D. Kyung Hee University, 2001, Associate Professor, Oriental Medicine, acufind@khu.ac.kr
In-Sop Shim, Ph.D. The University of Illinois, 1995, Associate Professor, Psychology, ishim@khu.ac.kr
Chang-Shik Yin, K.M.D., Ph.D. Kyung Hee University, 2004, Associate Professor, Oriental Medicine, acuyin@khu.ac.kr
Hyang-Sook Lee, K.M.D., Ph.D. Kyung Hee University, 2004, Associate Professor, Oriental Medicine, erc633@khu.ac.kr
Seung-Ho Yi, Ph.D. Texas Tech University, 1996, Assistant Professor, Physics, shyi@khu.ac.kr
Youn-Byoung Chae, K.M.D., Ph.D. Kyung Hee University, 2008, Assistant Professor, Oriental Medicine, ybchae@khu.ac.kr
The Department of Cancer Preventive Material Development was founded since Cancer Preventive Material Development Research Center (CPMDRC) launched in May, 2007 with MRC grant supported by MEST.

Degree Requirements

- All students have implementation of over 24 credits during Master course and over 36 credits during Ph.D. course.
- Six credits are required during Master or Ph.D. course from requisite choice subjects. However, any student who wants to get the degree of Science or Oriental Medicine must complete 6 credits at least on the subjects concerning the degree type during Master or Ph.D. course.
- Any students must complete the following requirements for Dissertation Application.
  1) Who normally registered over 4 semesters and obtained the required credits in 6-2 article or will obtain not more than 3 credits during the current semester.
  2) Who obtained the GPA over B (3.0) according to previous article.
  3) Who passed the Public Thesis Presentation.
  4) Who met the requirements of academic and internal regulations of The Department of Cancer Preventive Material Development.
- Any students who want to graduate from DCPMDRC must complete the following requirements.
  1) Any students who want to get Master degree must publish one paper in the journal that Academic Committee of DCPMDRC approved before graduation.
  2) Any students who want to get Ph.D. degree must publish two papers at least in SCI journal before graduation.
  3) The publication certification can be also accepted before final dissertation submission.

Courses

Introduction to Oncology, Cancer Apoptosis, Tumor Angiogenesis, Cancer Metastasis, Cancer Treatment by Oriental Medicine, Cancer Experimental Practice, Molecular Oncology, Cancer Prevention Seminar, Methodological Study of Cancer, Cancer Pathology in Oriental Medicine, Pathology of Cancer and Blood Stasis, Differentiation of Symptom-Complexes on Cancer, Cause and Mechanism of Cancer, Therapeutic Principles of Cancer, Research Trends in Cancer, Cancer and Informatics, Human Physiology I, Human Physiology II, Molecular Cellular Biology I, Molecular Cellular Biology II, Advanced Immunology I, Advanced Immunology II, Seminars in Immunology I, Seminars in Immunology II, Cancer Medical Research Methodology in TKM, Cancer Epidemiology in TKM, Molecular Cancer Epidemiology in TKM, Clinical Trials of Cancer Using TKM, Methodology for Anticancer New Drug Development Using Herbal Medicine in TKM, Health Preservation, Promotion and Qigong in TKM, Medical Biostatistics in TKM, Pharmacogenomics in TKM, Tumor Cell Biology

Faculty

Sung-Hoon Kim, Ph.D. Kyung Hee University, 1987, Professor, Oriental Pathology, sungkim7@khu.ac.kr
The Department of Japanese Language and Literature of the Graduate School of Kyung Hee University aims at acquisition of knowledge related to the Japanese language and Japanese literature. It has three major fields of studies. Its first objective of education is to help students to have a good command of the Japanese language, literature and the vast cultural phenomena of Japan. We focus our education on enhancing students’ professional sensibility not only of the Japanese language itself but also of the Japanese cultural phenomena and literature, so that they can be specialists in Japanese language and literature.

We direct our education for our students to have a deeper sense of linguistic and literature developments in connection with the major political and social events in history, dealing with the areas of Japanese linguistics, Japanese fiction, film studies, Japanese studies, etc. With this knowledge, our students will be well equipped to serve as professionals such as professors in linguistics, cultural studies, Japanese studies, Japanese literature.

Degree Requirements

- At least 24 course units of graduate level credit in Japanese Language and Culture courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
- A thesis advisor can be any faculty member from the department.

Courses

- History of Japanese Linguistics
- History of Japanese Literature
- Background of Japanese Literature
- Japanese Phonetics
- Japanese Phonology
- Japanese Syntax
- Japanese Semantics
- Japanese Morphology
- Japanese Genealogy
- Japanese Stylistics
- History of Japanese Language
- Various Forms of Japanese Characters
- Special Study on Japanese Grammar
- Modern Japanese Literature I
- Japanese Literature of Edo Period I
- Japanese Literature of Middle Ages I
- Japanese Literature of Heian Period I
- Sino-Japanese Literature
- Japanese Oral Literature
- Japanese Classics Poetry
- Japanese Modern Poetry
- Special Study on Modern Japanese Literature
- Japanese Drama
- Current of Japanese Literary Thought
- Japanese Literary Criticism
- Seminar in Japanology I
- Seminar in Japanology II
- Seminar in Japanology III
- Seminar in Japanese Literature I
- Seminar in Japanese Literature II
- Seminar in Japanese Literature III
- Seminar in Japanese Linguistics I
- Seminar in Japanese Linguistics II
- Seminar in Japanese Linguistics III
- Japanese Cognitive Linguistics
- Japanese Social Linguistics
- Japanese Discourse Analysis
- Error Analysis in Japanese
- Contrastive Analysis between
The university aims to “create a cultural world” by promoting academic education and research, democratic virtue, construction of cultural welfare society, and necessary human capitals. Moreover, towards this end, the university strives to realize its education program to be scientific, harmonious, democratic, and universal. To effectively fulfill the above educational principles and goals, the department has founded its own educational objectives: (1) in-depth academic research of Chinese language and literature; (2) daily use of Chinese; and (3) nurturing leaders with good training in Chinese language and literature. These objectives are founded on the historical recognition that premises on academic competitiveness at the international level and the foundation of the graduate school. Thus, the department focuses on the continuity of training from the undergraduate to the graduate level while maintaining a research-oriented graduate school of distinction.

Degree Requirements

• At least 24 course units of graduate level credit in Chinese Language and Culture courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
• Students must pass a qualifying examination.
• Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
• A thesis advisor can be any faculty member from the department.
Courses

Faculty
Chui-Lan Choo, Ph.D. Dankook University, 2002, Professor, Chinese Conversation, clchoo@khu.ac.kr
Kwan-Dong Min, Ph.D. Taiwan Culture University, 1994, Professor, Classical Chinese Literature, kadmin@khu.ac.kr
Jae-Suk Bae, Ph.D. University of Nanjing, 1996, Professor, Chinese Linguistics, jsbae@khu.ac.kr
Sang-Kyun Rho, Ph.D. Taiwan Culture University, 1997, Associate Professor, Classical Chinese Literature, rsk999@khu.ac.kr
Jae-Woo Choo, Ph.D. Peking University, 1997, Associate Professor, Chinese Foreign Policy, jwc@khu.ac.kr
Young-Wol Lee, M.A. Seoul Women’s University, 1997, Assistant Professor, Chinese Conversation, yylee01@khu.ac.kr
Li Zhen Ji, M.A. Hankuk University of Foreign Studies, 2003, Assistant Professor, Chinese Conversation, jhllee88@khu.ac.kr
Zhang Qi, M.A. Hankuk University of Foreign Studies, 2007, Assistant Professor, Chinese Conversation, qiqi21c@khu.ac.kr

Graduate School
Department of French Language and Literature
Tel: +82 31 201 2212 Fax: +82 31 204 8112 E-mail: cofla2@khu.ac.kr URL: http://france.khu.ac.kr

The Department of French Language and Literature was established in 1983 and maintains a sisterhood relationship with University in Tunisia. The department prepares exchange studies for students and exchange research for the faculty. The Department of French Language and Literature conducts research within an extensive curriculum. The course is designed to provide you with not only linguistic skills and literature knowledge specific to French, but also with important transferable skills such as French Language, literature studies, cultural studies, cultural history, and linguistics. Our students have gone on to diverse careers in institutes, trade companies, embassies, foreign offices, as well as remaining in the department as research students.

Degree Requirements
At least 24 course units of graduate level credit in French Language and Literature courses are required for the master's
Students must pass a qualifying examination.
Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
A thesis advisor can be any faculty member from the department.

Courses

Faculty
Hyo-Suk Sun, Ph.D. Grenoble III, 1988, Professor, French Linguistics, hssun@khu.ac.kr
Gi-Gook Kim, Ph.D. Paris IV-Paris Sorbonne, 1996, Professor, Semiotics, ggkim@khu.ac.kr
Gyung-Lae Lee, Ph.D. Paris III Sorbonne Nouvelle, 1992, Associate Professor, French Novel, lkbk@khu.ac.kr
Myung-Hee Hong, Ph.D. Bourgogne University, 1999, Associate Professor, French Literature, hjesjei@khu.ac.kr
Jae-Wook Lee, Ph.D. Montpellier III, 1994, Assistant Professor, French Literature, 80quatorze@hanmail.net
Jung-Sook Oh, Ph.D. Paris X, 2000, Assistant Professor, French Literature, ojs-ys@hanmail.net

The Department of Spanish Language and Literature of the Graduate School of Kyung Hee University offers 3 majors in Spanish language, Spanish literature, and Latin American literature. We focus our education on enhancing students professional knowledge and profound understanding of Spanish language, literature, and culture so that they can be specialists in the field and have an organic sense of the Spanish language and literature in connection with major political and social events in the history. We offer courses in Spanish Linguistics, Spanish Fiction, Film Studies, Spanish Cultural Studies, etc. With this wide spectrum of knowledge, our students will be well equipped to serve as professionals such as professors in linguistics, cultural studies, Spanish studies, Spanish literature as well as critics of film and mass media, working for newspapers and magazines.

Degree Requirements
At least 24 course units of graduate level credit in Spanish Language and Culture are required for the master's degree; 60 course units for the doctoral degree (including units completed in the master's courses).
Students must pass a qualifying examination.
Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
A thesis advisor can be any faculty member from the department.

Courses

Faculty
Han-Sang Kim, Ph.D. Complutense University of Madrid, 1987, Professor, Spanish Linguistics, hnskim@khu.ac.kr
Byung-Il Choi, Ph.D. University of Simon Bolivar, 1993, Professor, Latin America Literature, bichoi@khu.ac.kr
Bo-Yung Kim, Ph.D. University of Barcelona, 1996, Professor, Spanish Literature, boykim@khu.ac.kr
Hyo-Sang Lim, Ph.D. Complutense University of Madrid, 1984, Professor, Spanish Linguistics, hslim@khu.ac.kr
Yong-Bok Song, Ph.D. Mexico National University, 1999, Associate Professor, Meso America Study, songyb@khu.ac.kr
Mi-Sun Kwon, Ph.D. Complutense University of Madrid, 1993, Assistant Professor, Spanish Literature, mskwon@khu.ac.kr
Jose Maria Areta, Ph.D. Seoul National University, 2008, Associate Professor, Spanish Linguistics, joseareta@gmail.com
Chan-Kee Kim, Ph.D. Complutense University, 2004, Full-time Lecturer, Spanish Literature, chankeekim@hanmail.net
Fernando Saucedo Lastra, Ph.D. Barcelona Pompeu Fabra University, 2004, Full-time Lecturer, Comparative Literature and Literary Theory, villon67@gmail.com

The Department of Russian Language and Literature of the Graduate School of Kyung Hee University offers 3 majors in Russian language, Russian literature, and Russian studies. We focus our education on enhancing students' professional knowledge and profound understanding of Russian language, literature, politics and economy, Central Asia so that they can be specialists in the field and have an organic sense of the Russian language and literature in connection with major political and social events in the history. We offer courses in Russian Linguistics, Russian Literature, Film Studies,
Russian Studies, Central Asian Studies, etc. With this wide spectrum of knowledge, our students will be well equipped to serve as professionals such as professors in linguistics, cultural studies, Russian studies, Russian literature, and Central Asian studies as well as critics of literature and mass media, working for newspapers and magazines.

Degree Requirements

- At least 24 course units of graduate level credit in Russian Language and Culture are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
- A thesis advisor can be any faculty member from the department.

Courses

History of the Russian Literature Trends, Russian Novel, Russian Poetry, Russian Drama, Russian Literary Criticism, Old Russian Literature, Russian Literature of 18th Century, Romanticism, Symbolism, Russian Writers, Modern Russian Writers, Seminar in Russian Literature, Acmeism in Russian Literature, Futurism in Russian Literature, Russian Literature by Women, Semiotics, Formalism, Research and Writing, Russian Syntax I, Russian Syntax II, Russian Phonology, Russian Semantics, Seminar in Semantics, Russian Phonetics, Discourse Semantics, Seminar in Semantics-Pragmatics, Russian Lexicology, Discourse Analysis, Russian Stylistics, Old Church Slavic, Modern Russian Grammar, Special Lecture in Russian Linguistics, Seminar in Russian Linguistics, Historical Linguistics, Language and Logics, Methodology of Russian Studies, Seminar on Russian Region, Russian Economy, Russian Politics, Relations between Korea and Russia, History of Russian Political Thought, Central Asian Studies

Faculty

Woo-Seob Yun, Ph.D. University of Marburg, 1993, Professor, Russian Literature, yoonwo@khu.ac.kr
Se-Eun Kwon, Ph.D. Moscow State University, 1996, Professor, Political Science, sekwon@khu.ac.kr
Byong-Yong Ahn, Ph.D. Moscow State University, 1998, Associate Professor, Russian Literature, byahn@khu.ac.kr
Ji-Young Ahn, Ph.D. Institute of Russian Literature, Russian Academy of Sciences, 2002, Associate Professor, Russian Literature, ajiyoung@khu.ac.kr
Hang-Gyu Choi, Ph.D. Hankuk University of Foreign Studies, 1997, Assistant Professor, Russian Literature, hgchoi@khu.ac.kr
Budnikova Galina Aleksandrova, B.A. Far Eastern State University, 2000, Assistant Professor, Teaching Russian as a Foreign Language, gbudnikova@khu.ac.kr
Natalia Yuryevna Gryakalova, B.A. Institute of Russian Literature (Pushkinskij Dom) of Russian Academy of Science, 1998, Assistant Professor, Russian Literature, irliran@mail.ru
The Department was established with the purpose of educating men and women to perform research in Korean Language Education and Korean Culture Studies. In this day of rapidly increasing exchange and cooperation between countries and cultures, the establishment of this department is significant in striving to cultivate talented men and women to take a central role in undertaking the research of the Korean language and culture and to propagate the results to the world. The curriculum of the department is divided into Korean Language Education and Korean Culture Studies. The Korean Language Education curriculum is composed of lectures regarding the subject matter and pedagogy of the Korean language and the curriculum of Korean Culture Studies is composed of lectures related to the research and education of Korean culture.

A student who graduates from the department will be able to work as a college professor or a researcher. The student will also receive a Level 2 Korean Language Instructor Certificate from the Ministry of Culture and Tourism, a certificate which will enable the graduate to become an instructor in domestic and foreign colleges and related institutions and to contribute to the promotion of Korean language and culture.

**Degree Requirements**

- At least 24 course units of graduate level credit in International Korean Language and Culture courses are required for the master’s degree. At least 36 course units of graduate level credit in International Korean Language and Culture courses are required for the doctoral degree. At least 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
- A thesis advisor can be any faculty member from the department.

**Courses**


Faculty
Hwa-Hyoung Lee, Ph.D. Kyung Hee University, 1993, Professor, Korean Literature (Korean Traditional Culture), hhlee@khu.ac.kr
Dong-Ho Pak, Ph.D. University of Quebec at Montreal, 1996, Associate Professor, Linguistics (Korean Language Education), pakdh@khu.ac.kr
Sun-Yi Lee, Ph.D. Kyung Hee University, 1999, Associate Professor, Modern Korean Literature (Modern Korean Culture), budatree@khu.ac.kr
Young-Joo Kim, Ph.D. The University of Rochester, 1989, Assistant Professor, Linguistics (Language Acquisition), yjkims@khu.ac.kr
Jong-Su Kim, Ph.D. Korea University, Assistant Professor, Modern Korean Literature, smallis@khu.ac.kr

The Department of British and American Language and Culture of the Graduate School of Kyung Hee University aims at acquisition of knowledge related to British and American Language and Culture. It has four major fields of study: linguistics studies, studies in British and American literature, studies of Teaching English as a Second Language (TESL), and cultural studies. Its first objective of education is to help students to have a good command of the English language and grasp the vast cultural phenomena of England, America, and other English-speaking countries such as Canada and Australia. We focus our education on enhancing students’ professional sensibility not only of British and American language itself but also of the British and American cultural phenomena, ancient and modern, so that they can be specialists in British and American language and culture.

We direct our education for our students to have a deeper sense of linguistic and cultural developments of British and American countries in connection with the major political and social events in history, dealing with the areas of English linguistics, English and American fiction, film studies, American studies, etc. With this knowledge, our students will be well-equipped to serve as professionals such as professors in linguistics, cultural studies, American studies, British and American literature, also as critics and columnists of mass media arts such as film and video art, working for newspapers and magazines.
**Degree Requirements**

- At least 24 course units of graduate level credit in British and American Language and Culture courses are required for the master’s degree; 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the departmental thesis committee.
- A thesis advisor can be any faculty member from the department.

**Courses**

**Studies in British and American Culture**


**Studies in English Linguistics**


**Studies in British and American Literature**


**Studies in Teaching English as a Second Language**


**Faculty**

- Jong Huh, Ph.D. Chung Nam National University, 1992, Professor, Shakespeare and Modern Drama, huhj@khu.ac.kr
- Myoung-Ah Shin, Ph.D. University of Florida, 1989, Professor, Literary Criticism and American Fiction, mashin@khu.ac.kr
- Keon-Soo Lee, Ph.D. University of Hawaii, 1991, Professor, Syntax, kslee@khu.ac.kr
- Han-Gyu Lee, Ph.D. University of Illinois at Urbana-Champaign, 1992, Professor, Pragmatics, hglee@khu.ac.kr
- Jae-Hak Yoon, Ph.D. Ohio State University, 1996, Associate Professor, Semantics, jyoon@khu.ac.kr
- Sung-Hee Choi, Ph.D. University of Maryland at College Park, 2000, Associate Professor, Drama and Cultural Studies, shchoi@khu.ac.kr
- Ki-Wan Sung, Ph.D. Pennsylvania State University, 1998, English Education, Associate Professor, kiwansung@khu.ac.kr
In this major, promising technologies such as nanostructures, non-memory semiconductors, applied optics, and nonlinear complex systems have been chosen as areas of specialization. Practical education facilities have been established to provide training programs at the undergraduate and graduate level. In the field of nanostructures and non-memory semiconductors, we undertake research into the processing, modification and characterization of electronic and optoelectronic materials, and into the design, fabrication and testing of novel electronic and optoelectronic devices. Applied optics is becoming an increasingly important field for all optical telecommunication networks. Four professors in the field of optics are collaborating with professors specializing in nonlinear mechanics for a joint theoretical/experimental approach. Several faculty members specializing in surface physics, nuclear physics, and optics are performing collaborative research to solve nonlinear complexities. The Semiconductor Physics Research group was selected for the Brain Korea 21 Grant by the Ministry of Education. This 7-year research grant supports monthly salary and travel expenses for graduate students and postdocs. The department has very active and well-funded research facilities, offering excellent opportunities for students wishing to proceed to the degrees of Master of Science or Doctor of Philosophy. Major facilities established for the major include:

- PL system
- E-beam evaporator
- IR detector characterization system
- Spectroscopic ellipsometry system
- High temperature annealing system
- Wire bonder
- Tunable diode laser
- Ar laser
- Reflectance and transmittance measurement system
- RF spectrum analyzer
- Fusion splicer
- He-Cd laser
- Vacuum evaporator
- Workstation.

**Degree Requirements**

- At least 24 course units of graduate level credit in Physics courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the physics thesis committee.
- A thesis advisor can be any faculty member from the Physics department.

**Courses**

- Physics Experiment
- Classical Electromagnetism I, II
- Quantum Mechanics I, II
- Classical Mechanics
- Optics I, II
- Solid State Physics I, II
- Nuclear Physics I, II
- Statistical Mechanics I, II
- Advanced Modern Physics
- Semiconductor Physics

Faculty
Hun-Wha Lim, Ph.D. Texas A&M University, 1985, Professor, Solid State Theory, hwlim@khu.ac.kr
Gyu-Seung Shin, Ph.D. KAIST, 1985, Professor, Statistical Physics, shings@khu.ac.kr
Suk-Ho Choi, Ph.D. KAIST, 1987, Professor, Semiconductor Physics, sukho@khu.ac.kr
Suk-Joon Lee, Ph.D. Yale University, 1986, Professor, Nuclear Physics, ssjlee@khu.ac.kr
Hae-Yang Chung, Ph.D. University of California, San Diego, 1990, Professor, Applied Optics, chunghy@khu.ac.kr
Jeong-Woo Choe, Ph.D. University of Pittsburgh, 1990, Professor, Semiconductor Physics, jwchoe@khu.ac.kr
Ho-Sun Lee, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Semiconductor Physics, hlee@khu.ac.kr
Dae-Young Lim, Ph.D. University of Texas at Austin, 2001, Assistant Professor, Semiconductor Physics, dlim@khu.ac.kr

Laboratories
- **Nanostructure and Display Laboratory**
  URL: http://physics.kyunghee.ac.kr/~sukho/
  Director: Professor, Suk-Ho Choi (sukho@khu.ac.kr)
  Research Overview
  Research in this lab involves the studies of Si or Ge nanostructures and organic polymers. These studies range from the basic characterization of these materials to device applications such as light-emitting diodes and non-volatile memory devices. The nanostructures are fabricated either by using ion beam sputtering or PECVD to grow alternate layers of SiO2 and silicon-rich oxide or by ion-implantation of Si or Ge into host materials such as fused silica, sapphire, and SiO2. We are also employing several techniques such as photoluminescence, electroluminescence, cathodoluminescence, I-V, and C-V for optical and electrical characterization of these structures. This would enable us to integrate devices of differing functionalities onto a single chip.
  Ongoing Projects
  - Fabrication and characterization of silicon-based semiconductor nanostructures
  - Improvement in the physical properties of insulating layers for new functional semiconductor devices
  - Control of optoelectronic properties in advanced organic materials and their device applications
- **Semiconductor Photonics Laboratory**
  Director: Professor, Ho-Sun Lee (hlee@khu.ac.kr)
  Research Overview
  Our research at the Semiconductor Photonics Laboratory focuses on the study of optical properties of semiconductors and polymers in the form of thin films, heterostructures, and nanostructures. We also develop novel optical techniques to investigate thin films such as reflectance difference spectroscopy and magneto-optical Kerr spectroscopy. Main facilities are spectroscopic ellipsometry, reflectance difference spectroscopy, spectrophotometer, and sputtering chamber.
  Ongoing Projects
  - Selection of single-wall carbon nanotubes using reflectivity
  - Spintronics using dilute magnetic semiconductors
  - Optical properties of nanocrystalline silicon structures
  - Optical properties of electro-luminescent polymers
- **Nano-Sized Semiconductor Laboratory**
  Director: Assistant Professor, Dae-Young Lim (dlim@khu.ac.kr)
- **Semiconductor Devices Laboratory**
  Director: Professor, Jeong-Woo Choe (jwchoe@khu.ac.kr)
- **Quantum and Applied Optics Laboratory**
  Director: Professor, Hae-Yang Chung (chunghy@khu.ac.kr)
Solid State Theory Laboratory
Director: Professor, Hun-Wha Lim (hwlim@khu.ac.kr)

Nuclear Theory Laboratory
URL: http://physics.kyunghee.ac.kr/~sjlee/
Director: Professor, Suk-Joon Lee (ssjlee@khu.ac.kr)

Research Overview
Theoretical study of nuclear systems constituting nucleons. Properties of stable and unstable nuclei and nuclear reactions are studied using Relativistic and Nonrelativistic Mean Field Theories, Statistical Theory, and Hadrodynamical Method in Phase Space.

Ongoing Projects
- Mean Field Theoretical Structure of radioactive ion
- Equation of state of nuclear system

Complex Systems and Nonlinear Dynamics Laboratory
Director: Professor, Gyu-Seung Shin (shings@khu.ac.kr)

Our program is dedicated to both education and research on chemistry and its limitless possibility for applying chemical principles to other natural sciences, medicine, engineering and energy. Our mission is to provide students and post-doctoral fellows with a coalescing and learning experience from diverse research groups specialized in analytical, biological, inorganic, organic, physical, and polymer chemistries. In addition, we provide state-of-arts, advanced technologies to solve emerging questions in various multidisciplinary areas, including nano, biomedical, environmental and informational sciences. We envision that the education and research activities in the department is generating the next generation of academic, industrial, and government scientists who are committed to the advancement of human intellect and technology. With collective efforts of students, faculty and staffs, our program has been recognized for its excellence in education and research. Overall the Department of Chemistry serves as a cornerstone not only in the College of Applied Science but in Kyung Hee University and beyond as well. Currently, 15 faculty members participate in the undergraduate and graduate programs and direct active research.

Degree Requirements
- At least 24 course units of graduate level credit in Chemistry courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Chemistry thesis committee.
- A thesis advisor can be any faculty member from the Chemistry department.

Courses
Advanced Physical Chemistry, Advanced Analytical Chemistry, Quantum Chemistry, Molecular Spectroscopy,

Faculty
Beom-Suk Choi, Ph.D. University of Missouri at Columbia, 1982, Professor, Analytical Chemistry, bschoi@khu.ac.kr
Young-Sook Paik, Ph.D. Texas Tech University, 1984, Professor, Organic and Natural Products Chemistry, paikys@khu.ac.kr
Sung-Yul Lee, Ph.D. University of Chicago, 1988, Professor, Physical Chemistry, sylee@khu.ac.kr
Seung-Han Lee, Ph.D. Princeton University, 1987, Professor, Organic and Organometallic Chemistry, shlee@khu.ac.kr
Kwang-Hyun Ahn, Ph.D. Princeton University, 1988, Professor, Organic Chemistry, khahn@khu.ac.kr
Yong-Ho Kim, Ph.D. University of Minnesota, 1991, Professor, Physical and Computational Chemistry, yhkim@khu.ac.kr
Song-Ho Byeon, Ph.D. University of Bordeaux 1, 1991, Professor, Inorganic and Solid State Chemistry, shbyun@khu.ac.kr
Hak-Won Kim, Ph.D. Iowa State University, 1992, Professor, Organic Chemistry, hwkim@khu.ac.kr
Young-Sik Lee, Ph.D. Columbia University, 1992, Professor, Physical Chemistry, yongslee@khu.ac.kr
Seong-Ho Kang, Ph.D. Seoul National University, 1998, Associate Professor, Bio-Analytical Chemistry, shkang@khu.ac.kr
Sung-Ik Yang, Ph.D. Seoul National University, 1998, Associate Professor, Analytical Chemistry, siyang@khu.ac.kr
In-Su Lee, Ph.D. Seoul National University, 2000, Associate Professor, Inorganic Chemistry, insulee97@khu.ac.kr
Eun-Joo Kang, Ph.D. Seoul National University, 2006, Assistant Professor, Organic Chemistry, ejkang24@khu.ac.kr
Sun-Min Ryu, Ph.D. Seoul National University, 2005, Assistant Professor, Physical Chemistry, sunryu@khu.ac.kr
Min-Jae Lee, Ph.D. University of Pittsburgh, 2007, Senior Lecturer, Biochemistry, minjaeleel@gmail.com

Laboratories
- **Trace Chemical Analysis Laboratory**
  Director: Professor, Beom-Suk Choi (bschoi@khu.ac.kr)
  **Research Overview**
  - Studies on the contamination control during routine analytical operation, and concentration of trace elements utilizing ion-exchange and chelating resins
  - Determination of ultra-trace elements using inductively coupled plasma atomic emission spectrometry
  **Ongoing Projects**
  Separation and determination of trace metals using various kinds of chelating resins
- **Natural Products Chemistry Laboratory**
  URL: [http://web.khu.ac.kr/~khuchem/](http://web.khu.ac.kr/~khuchem/)
  Director: Professor, Young-Sook Paik (paikys@khu.ac.kr)
  **Research Overview**
  - Shikimate biosynthetic pathway from *Carthamus tinctorius*
  - Learning and memory enhancing components from medicinal plants
  - Blue pigments formation from *Gardenia jasminoides*
  **Ongoing Projects**
  - Studies on natural colorants chemistry
  - Cognitive enhancers from oriental medicinal plants
- **Theoretical Chemistry for Biophysical System Laboratory**
  URL: [http://web.khu.ac.kr/~hydepark](http://web.khu.ac.kr/~hydepark)
  Director: Professor, Sung-Yul Lee (sylee@khu.ac.kr)
Research Overview
We are carrying out theoretical/computational works on numerous important topics in physical, material, and biophysical chemistry. The molecular reaction dynamics and control theory are studied for photo-dissociation of small molecules, focusing on the effects of quantum interference. The physicochemical properties of biomolecules are theoretically treated. The effects of the solvent molecules on the structures and reactions of amino acid - water and DNA base - water clusters are examined. The properties of their electronically excited states are calculated to help analyze their experimental spectra. Electronic and optical properties of semiconductor-biomolecule interface are also studied by employing various theoretical tools.

Ongoing Projects
- Theoretical study of biomolecule-water clusters
- Effects of quantum interference on the photodissociation dynamics of small molecules
- Computational study of nano-bio systems

Organometallic Chemistry Laboratory
URL: http://web.khu.ac.kr/~lovechem/
Director: Professor, Seung-Han Lee (shlee@khu.ac.kr)
Research Overview
Our research program is in the area of organic synthesis with an emphasis on the design of reactions which are highly stereo-and enantioselective. The central goal of our studies is to develop new methods for the synthesis of bioactive compounds. We focus on carbon-carbon bond forming processes using metal catalysts. Our work spans the fields of organic synthesis, asymmetric catalysis, and organometallic chemistry.

Ongoing Projects
- Multi-component asymmetric synthesis of bioactive compounds using chiral catalysts
- Ring-opening of epoxides and aziridines using metal catalysts

Organic Advanced Materials Laboratory
URL: http://web.khu.ac.kr/~asymmetry/
Director: Professor, Kwang-Hyun Ahn (khahn@khu.ac.kr)
Research Overview
Our research focuses on the study of metal catalyzed asymmetric reactions such as asymmetric epoxidation and sulfoxidation. Development of new organic reactions in supercritical liquid and syntheses of new photochromic materials for an electronic application are current interests of our group.

Ongoing Projects
- Development of organic EL materials
- Development of new photochromic materials
- A study on organic reactions in supercritical liquid
- Development of new asymmetric sulfoxidation catalysts

Computational Chemistry & Biosimulation Laboratory
URL: http://web.khu.ac.kr/~cclab/
Director: Professor, Yong-Ho Kim (yhkim@khu.ac.kr)
Research Overview
Our main research topic is theoretical studies for reaction dynamics of multiple proton transfer. The direct dynamics approach has been used to generate potential hyper surfaces, and the variational transition state theory including multidimensional semi-classical tunneling approximations is used to calculate rate constants and tunneling coefficients. The multi-configuration molecular mechanics method is used to generate potential energy surface for large molecular systems. Other research topics in our lab are bioinformatics and protein dynamics. We are interested in the pKa of the amino acid residues in an enzyme active site. The QM/MM method is used to study the acidity of amino acids and the environmental effects.

Ongoing Projects
- Reaction dynamics for multiple proton transfer reactions: From small to large molecular systems
- Surface reaction dynamics: Proton transfer on ice surface
- Bioinformatics
• Molecular dynamics simulation for an enzyme active site: Serine protease
• New parameter models for the density functional theory

Materials Chemistry Research Laboratory
URL: http://gaya.khu.ac.kr/materials/
Director: Professor, Song-Ho Byeon (shbyun@khu.ac.kr)
Research Overview
A recent research interest of this group is the synthesis of new oxides applicable to heterogeneous acid catalysts and photocatalysts, ionic conductors for energy reservoir, host materials for organic/inorganic composites and display materials. Current work also includes the ion-exchange reaction and the high-pressure synthesis of perovskite-related oxides and the development of phosphor materials for FED, PDP, LED, and LCD back light applications.

Ongoing Projects
• Functionalizable nano-molecular materials
• Development of oxide phosphor materials for PDP and LCD backlight
• Thermal-shock induced low temperature synthesis of phosphor materials under the mixed flux condition
• Pressure mediated synthesis, characterization, and application of nano-structured metals, alloys, and metal oxides
• Solvothermal synthesis of functional materials for display applications

Organic Synthesis Laboratory
URL: http://web.khu.ac.kr/~orsyn/
Director: Professor, Hak-Won Kim (hwkim@khu.ac.kr)
Research Overview
In our laboratory, we have focused on the development of synthetic methodology and the total synthesis of natural and unnatural compounds, such as oxazolidinone antibiotics, antiallergic drugs (bepotsatin, triprolidine etc.), flavonol derivatives, saponin derivatives, and specially designed chelating ligands for metal extraction. We have also studied and developed the supercritical fluid chemistry, especially supercritical carbon dioxide which is an environmentally benign alternative for the organic solvent. Extraction (metal and natural product), nanoparticle preparation, enzymatic reaction and nanometal-catalyzed organic reaction have been investigated in supercritical CO2.

Ongoing Projects
• Cleaning technology development using a new solvent for green nuclear energy
• Nanometal-catalyzed organic reaction in supercritical carbon dioxide
• Development of CO2-soluble chelating agent for heavy metal extraction into SC-CO2
• Synthesis and evaluation of biologically important compounds (flavone derivatives and saponin derivatives, etc.)

Laser Chemistry Laboratory
Director: Professor, Young-Sik Lee (yongslee@khu.ac.kr)
Research Overview
The Laser Chemistry Laboratory uses various lasers and computers to understand the principles of atomic and molecular interactions. For example, intermolecular vibrational energy transfer can be studied using IR diode lasers. The results can be applied to the combustion study and chemical laser development. Quantum mechanical computations for the various clusters and important molecules result in the determination of structure, energy, and vibrational frequencies. For the science education part, many science teaching materials are developed for the science gifted students.

Ongoing Projects
• IR diode laser spectroscopy of greenhouse gas N2O
• Computational study of various van der Waals complex
• Development of the resources for science and education

Bio-Analytical Laboratory
URL: http://banfl.khu.ac.kr/
Director: Professor, Seong-Ho Kang (shkang@khu.ac.kr)
Research Overview
We have interested in bio-analytical chemistry, nanobio-fusion and their related fields (i.e., nanobio chip, lab-on-a-chip, bio-sensor, single-molecule detection and manipulation technologies, new analytical systems and methods,
micro-separation techniques, etc). In particular, we investigate new phenomena in life and natural science based on the single-molecule detection techniques.

**Ongoing Projects**
- Novel analytical system and method
- Micro-separation technique
- New single-molecule detection system and technique
- Biochip

**Nanoanalytical Laboratory**
URL: http://gaya.khu.ac.kr/nal/
Director: Professor, Sung-Ik Yang (siyang@khu.ac.kr)

**Research Overview**
We are interested in synthesis and characterization of nanomaterials, photochromic materials, and organic semiconductors. We characterize the physical properties using electrical measurements and spectroscopic methods including absorption, fluorescence, and time resolved fluorescence.

**Ongoing Projects**
- Synthesis and characterization of nanomaterials
- Characterization of photochromic materials
- Organic thin film transistors

**Molecular Nanomaterials Laboratory**
URL: http://web.khu.ac.kr/~nanochem/
Director: Associate Professor, In-Su Lee (insulee97@khu.ac.kr)

**Research Overview**
Most of our researches are based on the synthesis and modification of nanoparticles. Especially, we have much interest in the synthesis of various kind of metal oxide and magnetic nanoparticle and modification of their surfaces. By employing their novel properties, we are also searching for the new application field of the nanostructured materials. For this, we are employing the paramagnetic or superparamagnetic nanoparticles as biomedical agents such as MRI contrast agents, drug delivery carriers, protein purification agents, and biomolecular sensors. By combining the catalytic species with the hollow nanostructures of magnetic nanoparticles, we are also developing the nanomaterials as recyclable and selective catalytic systems.

**Ongoing Projects**
- Synthesis and modification of nanoparticle
- Fabrication of nanoparticles for biomedical application
- Development of nanoreactor systems
- Fabrication of 2-D nanostructured materials

**Organic Catalysis and Synthesis Laboratory**
URL: http://orgchem.khu.ac.kr/
Director: Professor, Eun-Joo Kang (ejkang24@khu.ac.kr)

**Research Overview**
Research in our group is primarily aimed toward the development of catalysts, catalytic reactions and methods for organic synthesis. Ultimately, we are interested in using these methods to address problems in the synthesis of complex molecules possessing interesting structural, biological and physical properties. As such, our research program spans the areas of organic synthesis, catalysis, and organometallic chemistry.

**Ongoing Projects**
- N-Heterocyclic carbene catalyzed organic reactions
- Iron catalyzed hydrofunctionalization reactions
- Total synthesis of natural products

**Nanomaterials Spectroscopy Laboratory**
URL: http://sunryu.khu.ac.kr
Director: Professor, Sun-Min Ryu (sunryu@khu.ac.kr)
Research Overview
We have a great interest in 2-dimensional materials, in particular, graphene, MoS2, and other atomically thin objects. Graphene, a single sheet of graphite, is only one atom-thick, but can be as large as hundreds of micron across. Graphene may be considered as a gigantically conjugated aromatic molecule. Since its first isolation from graphite in 2004, scientists have made various exciting observations. Owing to its many attractive properties, graphene holds a great promise in future applications such as electronics, transparent electrodes/display, and smart nanocomposites. Our immediate goal is to develop various chemical tools to manipulate the properties of graphene and characterize the change by spectroscopic and SPM (scanning probe microscopy) tools. We are also seeking new properties of other 2-dimensional materials which may lead to exciting applications.

Ongoing Projects
∙ Graphene-based novel nanostructures
∙ Energy and charge transfer in 2-dim nanostructures
∙ Optical properties of 2-dim materials (graphene, MoS2, BN, etc)

UPS (Ubiquitin-Proteasome System) Biochemistry Laboratory
Director: Senior Lecturer, Min-Jae Lee (minjaeelee1@gmail.com)

Research Overview
We are interested in biochemical regulatory mechanisms and their physiological implications in the Ubiquitin-Proteasome System. UPS is responsible for the degradation of most of intracellular proteins. Based on our understanding through various experimental methods in biochemistry, molecular biology, cell biology, we are exploring a possibility of modulating the system using pharmacological intervention. Our ultimate goal is to develop a therapeutic, mechanism-modifying drug focusing on neurodegenerative diseases.

Ongoing Projects
∙ Identifying novel proteasome activity regulators and understanding their biochemical functions
∙ Understanding the Ubiquitin-Proteasome System’s physiological implication in Alzheimer’s diseases and other human diseases
∙ Developing new chemical biological methods to understand and modulate tau protein degradation and aggregations
∙ Characterizing the relationship between the N-end rule pathway and the mammalian proteasome

Graduate School
Department of Biotechnology
Tel : +82 31 201 2613    Fax : +82 31 203 8127    E-mail : gob@khu.ac.kr    URL : http://web.khu.ac.kr/~bio21/

The Graduate School of Biotechnology was established for the purpose of creating a cultural world for the embodiment of humanitarian ideals through the systematic and professional education in order to nurture a sound and talented work force. We strive to acquire and research forefront intelligence and technologies for the academic development of biotechnology in order to contribute to the human welfare and regional development while keeping pace with the developing industrial and IT society.

The Graduate School of Biotechnology has been supported by the Ministry of Education as a recipient of the Brain Korea 21 program. It was first established in the Spring Semester of 2000 as an independent research institute, focusing primarily on plant, animal, and food biotechnology, to meet the growing demands of modern society and to be in the forefront of life science in the 21st century.
Currently, a team of 22 professors, about 100 graduate students and 10 post-doctoral research fellows in the fields of Biochemistry, Cell Biology, Functional Genomics, Microbiology, Molecular Biology, Immunology, Plant Molecular Biology, Natural Product Chemistry, Oriental Medicinal Chemistry and Food Biotechnology are involved in research.

**Degree Requirements**
- The minimum course credits for the doctoral program, excluding thesis guidance credits, are 36. For the master’s degree, the minimum course credits are 24, excluding thesis guidance credits.
- In order to submit a graduate dissertation, the applicant must pass a foreign language test and a qualifying examination.

**Courses**
- Advanced Biochemistry, Advanced Molecular Biology, Advanced Cytology, Advanced Molecular Cell Biology, Advanced Bioengineering, Advanced Immunology, Cell Genetics, Seminar, Advanced Genetic Engineering, Practical Genetic Engineering, Food Biotechnology, Oriental Medical Chemistry

**Faculty**
- Tae-Ryong Hahn, Ph.D. Texas Tech University, 1983, Professor, Biochemistry, trhahn@khu.ac.kr
- Ji-Young Kim, Ph.D. University of Chicago, 1981, Professor, Molecular Biology, jkim@khu.ac.kr
- In-Sik Chung, Ph.D. Auburn University, 1986, Professor, Biotechnology, ischung@khu.ac.kr
- Kwang-Hee Baek, Ph.D. University of Chicago, 1988, Professor, Molecular Biology, klabek@khu.ac.kr
- Jae-Seung Yoon, Ph.D. Purdue University, 1990, Professor, Cell Biology, jsyoon@khu.ac.kr
- Dae-Kyun Chung, Ph.D. Cornell University, 1991, Professor, Microbial Genetics, dkchung@khu.ac.kr
- Chang-Joong Kang, Ph.D. Texas A&M University, 1994, Professor, Immunology, cjkang@khu.ac.kr
- Jong-Soon Jeon, Ph.D. Seoul National University, 1996, Professor, Plant Functional Genomics, jjeon@khu.ac.kr
- Seong-Hee Bhoo, Ph.D. University of Nebraska-Lincoln, 1998, Associate Professor, Biochemistry, shbhook@khu.ac.kr
- Byung-Yong Kim, Ph.D. North Carolina State University, 1989, Professor, Bio-Rheology, bykim@khu.ac.kr
- Seung-Kook Park, Ph.D. University of California, Davis, 1993, Professor, Food Chemistry, skpark@khu.ac.kr
- Hae-Yeong Kim, Ph.D. Albert Einstein College of Medicine, 1994, Professor, Molecular Biology, hykim@khu.ac.kr
- Cheon-Seok Park, Ph.D. University of California, Davis, 1997, Professor, Food Microbiology & Biotechnology, cspark@khu.ac.kr
- Moo-Yeol Baik, Ph.D. University of Massachusetts, Amherst, 2000, Associate Professor, Food Processing, mooyeol@khu.ac.kr
- Dae-Ok Kim, Ph.D. Cornell University, 2003, Associate Professor, Functional Foods, dokim05@khu.ac.kr
- Nam-In Baek, Ph.D. Pharmaceutical Sciences, Osaka University, 1989, Professor, Natural Products Chemistry, nibaek@khu.ac.kr
- Deok-Chun Yang, Ph.D. Kyung Hee University, 1990, Professor, Biotechnology, dcyang@khu.ac.kr
- Tae-Hoo Yi, O.M.D., Ph.D. Kyung Hee University, 2005, Associate Professor, Oriental Medicine, dthoo@khu.ac.kr
- Young-Sook Son, Ph.D. University of California, San Francisco, 1989, Professor, Tissue Engineering, ysson@khu.ac.kr
- Young-Rok Kim, Ph.D. Cornell University, 2003, Assistant Professor, Food Nanotechnology, youngkim@khu.ac.kr
- Yong-Su Jeong, Ph.D. Seoul National University, 1999, Assistant Professor, Developmental Genetics, yongsu@khu.ac.kr
- Jae-Sung Hwang, Ph.D. Ajou University, 2003, Assistant Professor, Skin Biology, jshwang@khu.ac.kr

**Laboratories**
- **Biochemistry Laboratory**
  - Director: Professor, Tae-Ryong Hahn (trhahn@khu.ac.kr)
- **Research Overview**
  - Our research laboratory focuses on plant carbon metabolism to maximize crop productivity which is determined by the source (leaf) to sink (seed) interactions. Core regulation enzymes involved in carbon metabolism in chloroplasts and cytosol are overexpressed or knock-outed to investigate the role of those enzymes in sugar metabolism. Besides
photosynthetic energy source, light acts as a signal for the development of higher plants. To elucidate light signal transduction mechanism, proteomics and molecular genetics approaches are employed. Novel light signal components are determined and the genes of the components are introduced into Arabidopsis with sense or antisense orientations. Transformants are investigated with various light and environmental conditions.

Ongoing Projects
- Carbon metabolism of photosynthesis using biochemical and transgenic plant systems
- Plant light signal transduction mechanism employing proteomics and molecular genetics approaches
- Sugar signal transduction in higher plants
- Pathways and enzymes involved in safflower pigments biosynthesis

**Molecular Biology Laboratory**
Director: Professor, Ji-Young Kim (jkim@khu.ac.kr)

Research Overview
Our research group is working on the regulation of chemokine genes in monocytic cell lines in response to various agonists in order to understand regulatory roles of chemokine during inflammation. We have been studying functional roles of chemokines in angiogenesis by analyzing endothelial cell migration and in vivo angiogenic activities. We are currently working on migration and invasion of hepatoma cells which are induced by CCR1 ligands. In addition, we are also interested in plant-derived natural products which could be utilized for prevention and treatment of inflammatory diseases and osteoporosis.

Ongoing Projects
- Function and signaling pathways of CC-chemokines in monocytes and endothelia cells
- Roles of chemokine, CCL23 (CK8) in CCR1-expressing hepatoma cells
- Functional analysis of Lactoferrin on cell growth and angiogenesis through receptor-mediated signaling
- Screening and analysis of plant-derived natural products for immuno-modulation and osteoporosis therapy

**Biotechnology Laboratory**
Director: Professor, In-Sik Chung (ischung@khu.ac.kr)

Research Overview
Our laboratory conducts research on medical biotechnology for the production of vaccines and therapeutic proteins. The research is also geared towards plant genetic engineering and biotechnology to introduce value-added traits into the plants.

Ongoing Projects
- Development and application of novel viral expression systems
- Medical biotechnology for the efficient production of therapeutic proteins
- Plant metabolic engineering-related research
- Plant genetic engineering for the production of edible vaccines and therapeutic proteins in transgenic plants

**Laboratory for Molecular Genetics**
Director: Professor, Kwang-Hee Baek (khibaek@khu.ac.kr)

Research Overview
Our research focuses on the development of protein expression in mammalian cell culture. For our research, we developed the unique expression vector containing MAR element in CHO cell, which can promote the easy selection of the protein-expressing cell line and increase the level of protein expression. We continue to characterize several MAR elements from various sources and analyze their functions in the promotion of protein expression. Using the expression vector, we are developing many cell lines expressing various proteins such as growth factors, cytokines, and GPCRs. On the other hand, we also focus on the research to identify the functional role of the DJ1, whose mutation can promote Parkinson’s disease.

Ongoing Projects
- Development of GPCR-expressing CHO cell lines and screening of effective molecules from natural resources to promote the signal transduction through the GPCRs
- Study on the cloning and functional identification of eye-specific genes in Drosophila
- Development of cell lines expressing growth factors
- Characterization of DJ1 function in vivo
Cell Biology Laboratory
Director: Professor, Jae-Seung Yoon (jsyoon@khu.ac.kr)

Research Overview
Many human diseases of the nervous system are caused by degeneration of nerve cells due to mutational changes in the proteins underlying their functions. We use the fruit fly Drosophila to investigate how the retinal neurons are excited by light, a process called phototransduction. Drosophila allows us to systematically generate mutants that are defective in the process and utilize these mutants to identify the molecules involved in it. We introduced this approach to the field of visual functions, and it has led to the identification of many of the molecules required in phototransduction. We also investigate the possibilities for enhancing the protein expression in mammalian cells. We continuously improve the expression vectors which can be used for CHO cells that are widely used as host for biopharmaceutical production.

Ongoing Projects
- Regulation of TRP channels
- Mechanism of retinal degeneration
- Development of the 3rd generation HBV vaccine
- Improved expression systems for CHO cells

Functional Biomaterial Engineering Laboratory
Director: Professor, Dae-Kyun Chung (dkchung@khu.ac.kr)

Research Overview
Our research focuses on the production of functional biomaterial with biotechnology. We have several screening techniques using recombinant DNA technology for the isolation of new functional biomaterial. There are many ongoing research projects such as development of new material for atopic dermatitis, whitening and wrinkle free skin, and osteoporosis. In addition, for the basic research, we have studied the relationship between microorganism and the innate immunity, especially the mechanism of toll-like receptors.

Ongoing Projects
- Research about human immune response, especially innate immunity including toll-like receptor
- Development of new functional biomaterial for atopic dermatitis from microorganisms
- Development of new functional biomaterial for osteoporosis from natural sources
- Development of new functional biomaterial for whitening and wrinkle free skin from natural sources
- Development of cell line producing peptides having anti-cancer, anti-hypertension and anti-thrombosis activity

Immunology Laboratory
Director: Professor, Chang-Joong Kang (cjkang@khu.ac.kr)

Research Overview
Our immunology lab is working to elucidate the regulation of gene expression during B cell development. As a model system, IgJ chain gene and its neighboring Crfl gene are our immediate targets for the study. IgJ chain gene is only expressed after a primary immune response. Crfl gene is almost unknown in terms of gene expression regulation and its function. We are currently studying the Crfl gene. The starting point of the research is the enhancer element positioned between the two neighboring genes.

Ongoing Projects
- Study on the chromatin structure of immunoglobulin J chain gene locus
- Identification and its functional analysis of transcriptional regulatory proteins binding to the STAT5-overlapping site of the J chain gene enhancer in the antibody-secreting plasma cells
- Study on the regulation of Crfl gene expression and its function

Plant Functional Genomics Laboratory
Director: Professor, Jong-Seong Jeon (jjeon@khu.ac.kr)

Research Overview
Our research at the Plant Functional Genomics Laboratory focuses on both signal transduction of rice blast resistance and regulation of rice carbon metabolism that facilitates the improvement of rice disease resistance and rice carbon metabolism.
Ongoing Projects
- Characterization of transcription factors regulating rice blast resistance
- Regulatory mechanism of rice blast resistance
- Enhancing sink strength
- Development of a novel rice variety with enhanced nutritional value

Plant Biochemistry Laboratory
Director: Professor, Seong-Hee Bhoo (shbhoo@khu.ac.kr)
Research Overview
Our laboratory focuses on the carbon metabolism and light signal transduction in plant Arabidopsis. Several enzymes involved in the plant carbon metabolism are regulated up or down to see changes in carbon metabolism and ultimately plant growth and productivity. Plant light signal transduction is being investigated. Red light specific Phytochrome A degradation is a sub research topic. Determination of Phytochrome A degradation domain and ubiquitination site is another research interest. Our laboratory also focuses on the determination of blue light signal intermediates using several mutants responding to specific blue light. Proteomics and molecular genetics are being employed to screen light signal components and genes involved in many different stimuli in Arabidopsis.

Ongoing Projects
- Carbon metabolism research with up or down regulated transgenic Arabidopsis
- Determination of phytochrome A degradation domain and ubiquitination site
- Screening of light signal components using proteomics approaches
- Screening of phosphorylated and ubiquitinated proteins using proteomics approaches
- Determination of blue light signal components using molecular genetic approaches

Food Engineering Laboratory
Director: Professor, Byung-Yong Kim (bykim@khu.ac.kr)
Research Overview
Research interests include food rheology, food texture and optimization of the food formulation. Recent studies have involved fish protein gelation, and optimization of by-products for the food formulation. Methods of processing, storage, and packaging have received attention along with characterization of new products. Ideas for food equipment have been studied and laboratory prototypes developed.

Ongoing Projects
- Utilization of the enzyme hydrolysate for functional foods and optimization of formulation
- Data base of the amount of ethyl carbamate in traditional Korean liquors
- Quality mapping and searching the indicated proteins of optimized Chungkukjang production by using the proteomics

Food and Flavor Chemistry Laboratory
Director: Professor, Seung-Kook Park (skpark@khu.ac.kr)
Research Overview
Our research is focused on two major areas: the development and application of analytical chemistry techniques to study food chemistry, particularly in wine, coffee, tea, and beer and the elucidation of the chemical mechanisms for the formation of desirable and undesirable flavor compounds during processing.

Ongoing Projects
Our current research projects involve changes in volatile compounds of green tea during growing season, and off-flavor development from wine and beer fermentation.

Food Biochemistry Laboratory
Director: Professor, Hae-Yeong Kim (hykim@khu.ac.kr)
Research Overview
In the Food Biochemistry Lab, we carry out research on the identification and optimization of functional, nutritional, and health-related properties of foods using the recent recombinant technologies. Through our research, we identify the function and mechanism of food in human beings.

Ongoing Projects
- Microarray sensor for rapid detection of food-borne pathogens
Isolation of iron and copper-storage elevated yeast and its characterization using proteomics
Identification of allergy diagnostic markers by functional proteomics
Safety assessment of genetically modified foods

**Food Microbiology & Biotechnology (FMB) Laboratory**
Director: Professor, Cheon-Seok Park (cspark@khu.ac.kr)

**Research Overview**
Our research laboratory mainly focuses on applied microbial engineering related to food microorganisms which produce many interesting functional biomaterials including industrial enzymes, functional secondary metabolites, and microorganism itself. There are three main topics being studied in our lab. First, bioconversions using microbial cells and/or enzymes in which we are making functional prebiotic carbohydrate materials including palatinose, maltooligosaccharides, and many transglycosylation products. Second, the production of functional secondary metabolites from useful fungal strains originated from traditional Korean food materials (Doenjang, Maeju, and Nuruk). We are interested in functional genomics of many metabolic pathway genes related with the anticholesterolemic, antimicrobial, and anticancer agents produced from many filamentous fungi. Third, we are trying to study the regulation of food pathogens via controlling various environmental factors based on the hurdle theory.

**Ongoing Projects**
- Functional genomic researches on food microorganisms originated from the Korean tradition fermented food
- Production of efficient bio-energy from fungal enzymes and cell wall-expanding protein
- Production of functional transglycosylated isoflavones using microbial transglycosylation enzymes
- Modification of Ginseng saponin using microbial transglycosylation enzymes

**Food Processing Laboratory**
Director: Professor, Moo-Yeol Baik (mooyeol@khu.ac.kr)

**Research Overview**
Our research goals are to develop the value-added technologies that are related to the modification of functional food ingredients such as carbohydrates, proteins and lipids, and their application in food and non-food products. Controlling water interaction and migration in various food systems is another area that we are interested in. Investigation of molecular dynamics, such as water and food biopolymer mobility/interaction is of great interest to us. The research field involving functional food ingredients and the interplay of water with food components will provide basic and applied knowledge. This is beneficial to the advancement of understanding of how food components interact with each other in various complex systems.

**Ongoing Projects**
- Physicochemical properties of cross-modified starches
- Non-thermal starch modification using ultra high hydrostatic pressure
- Development of value added Korean ginseng products using ultra high hydrostatic pressure and puffing

**Functional Foods Laboratory**
Director: Professor, Dae-Ok Kim (dokim05@khu.ac.kr)

**Research Overview**
Our laboratory has been working on various subjects on chemistry of fruits and vegetables related to nutritional, sensory, and nutraceutical qualities.
Identification and quantification of bio-functional phytochemicals, especially phenolics, is based on the instrumental analyses using spectrophotometer, HPLC, etc.
Various chemical and enzymatic assays for antioxidant activity of phytochemicals from plants are currently used in our laboratory.
For the investigation of in vitro effects (anticarcinogenic or antineurodegenerative effect) of bio-functional phytochemicals, we have used various cell lines such as human cancer cell lines and PC 12 cells.
Fruit and vegetable processing has been also studied to evaluate its effects on the profile of phenolic phytochemicals and antioxidant activity.

**Ongoing Projects**
- Phenolics in lettuce and their protective effects on neuronal cells
Characterization of flavan-3-ols in green teas organically grown in the Bosung area and their industrial applications to improve the quality of green tea products

Natural Products Chemistry Laboratory
Director: Professor, Nam-In Baek (nibaek@khu.ac.kr)
Research Overview
Our research at the Natural Products Chemistry Laboratory focuses on the study of isolation of secondary metabolites from natural sources including oriental medicinal materials, determination of the chemical structure, evaluation of the biological and pharmacological activity. Through our research, we develop novel and safe materials for drugs, cosmetics, functional foods and agrochemicals, which finally create the way for human well-being.

Ongoing Projects
- Development of pharmacological materials from oriental medicinal drugs
- Study on the biosynthetic pathway of guaianolide sesquiterpenes in composite plants
- Development of antitumor materials from natural sources
- Study on the metabolomics of the secondary metabolites in the higher plants

Biotechnology Lab for Oriental Medicinal Materials (HanBangBio)
Director: Professor, Deok-Chun Yang (dcyang@khu.ac.kr)
Research Overview
Our research (HanBangBio) is being done on oriental medicinal plants including ginseng.

- More than 20,000 expressed sequence tags (ESTs) from ginseng, Codonopsis lanceolata and other medicinal plants have been obtained. New genes from the EST sequences have been identified and characterized.
- Oriental medicinal plants including Codonopsis sp., Adenophora sp., etc. are re-identified by molecular taxonomic technique using ITS and ribosomal DNA sequences. After identification, molecular markers for discrimination of specific plants are developed.
- Promoter regions of medicinal plant genes responsive to environmental stresses are identified.
- Useful genes encoding biosynthetic enzymes for pharmaceutically active compounds in ginseng have been transformed to other plants and amplified for mass production.
- A new vector system without antibiotic resistance genes is being developed for plant transformation.
- Roots of medicinal plants (Sedium sp. and Rhodiola sp.) are regenerated in vitro.
- Major ginsenosides Rb, Rg are bio-transformed to pharmaceutically more active minor ginsenosides Rd, Rg3 and Rh2 by microbial enzymes. Many lactic acid bacteria and their enzymes were isolated and characterized.
- Pathogenic fungi on medicinal plants were isolated and their distribution in Korean field is analyzed using molecular technique.

Ongoing Projects
- Mass production of ginsenoside using rhizosphere microorganisms
- Development of ginseng culture technique for post-4 year culture
- Development of new pharmaceutical material by microbial fermentation in medicinal plants
- Development of genetic maker for Chun-Poong cultivar
- Development of new functional material using saponin-biosynthetic genes
- Analysis of Codonopsis lanceolata EST
- Characterization of stress-resistant genes and their transformation
- Re-evaluation of ginseng product containing red ginseng

Lab of Oriental Medicinal Product & Processing
Director: Professor, Tae-Hoo Yi (drhoo@khu.ac.kr)
Research Overview
Our research laboratory focuses on developing functional food and cosmetic materials using oriental medicinal plants and studying their mechanism. Until now we have focused on finding anti-alopecia agents from oriental medicinal plants and developing drugs and cosmetic products for alopecia. As most cases of hair loss seen in clinical practice mainly represent disturbances of the cycle of hair follicle that are based on a premature termination of anagen, we have been studying how herbal medicinal plants prevent anagen to telogen transformation and stimulate telogen to anagen transformation in C57BL/6 mouse resulting in both cellular proliferation and protein synthesis increase.
Furthermore we focus on cell regeneration and mutual delivery mechanisms between the skin and drugs as well as a host of innovative products for aging prevention, whitening, hydration, etc, and study the delivery systems for effective oriental medicinal materials.

**Ongoing Projects**
- Development of hair follicle and hair cycle destruction/recovery mouse model for anti-alopecia agent evaluating system (APES)
- Oriental medicinal plants screening for having hair growth promoting effect by using keratinocyte and dermal papilla cells

### Tissue Engineering Laboratory
**Director:** Professor, Young-Sook Son (ysson@khu.ac.kr)

**Research Overview**
Our research laboratory focuses on basic cell biology of tissue stem cells and their applications on regenerative medicine. More specifically, we are studying mechanism to regulate mesenchymal stem cell (MSC) pool and their mobilization especially in the bone marrow in the context of tissue injury. With use of MSC and/or dedifferentiated chondrocytes, we are developing technologies for tissue engineered cartilage and bone with the aim for future clinical application of osteoarthritis and bone fracture. We are also exploring several alternative accessible neural precursor cells from adipose stem cells and melanocytes and evaluate the possibility for neuronal cell therapy in the spinal cord injury animal model.

**Ongoing Projects**
- Tissue-Engineered Biocartilage, MSC mobilization, Development of bone scaffold by Musculoskeletal Bioorgan Center Project. Induced-Schwann cells for the repair of spinal cord injury by Stem cell research center. Cell signaling from cyclic tension and their effect on cell survival. 3-D BioSkin for bioscreening of cosmetics and toxic materials.

### Food Nanotechnology Laboratory
**Director:** Professor, Young-Rok Kim (youngkim@khu.ac.kr)

**Research Overview**
Our interests span a range of topics that are related with the Nanobiotechnology and its application to the Food Science and other biological research. It includes the development of nanomaterials for the advancement of food system and human health. We are working on a variety of problems related with the synthesis of biocompatible nanomaterials, integration of these materials with biological molecules, and confer them specific functions that can be deliverable to our body through food system. Upon scaling down the size of macroscopic materials into nano scale, the physical principles that determine the overall property of the system changes, and we are utilizing this phenomenon to develop an advanced food materials.

**Ongoing Projects**
- Development of smart nanoparticles for effective delivery of functional components in food
- Development of a fast label-free detection system using nanopore for the early diagnosis of infectious animal disease
- Development of high speed single nucleotide polymorphism detection using nanopore technology

### Laboratory of Developmental Genetics
**Principal Investigator:** Professor, Yong-Su Jeong (yongsu@khu.ac.kr)

**Research Overview**
The secreted protein, Sonic hedgehog (Shh), plays essential roles in establishing the ventral patterning of the vertebrate central nervous system (CNS). In the absence of Shh function, the normal processes to form neural tube are impaired resulting in holoprosencephaly (HPE), a structural malformation of the brain, as well as neuronal patterning and path finding defects. It is integral to study how Shh transcription is regulated in the CNS for the understanding of ventral neural tube development. Research in my laboratory focuses on uncovering the cis and trans acting determinants of Shh expression in the mouse CNS through employing genetic, genomic and biochemical approaches. An understanding of how Shh expression is initiated in the ventral forebrain may provide insight into additional causes of holoprosencephaly.

**Ongoing Projects**
- Identify novel regulators of Shh transcription in the mouse central nervous system
Screen for upstream activators of Six3-Shh pathway
- Determine the role for ZLI in the development of the thalamus and prethalamus
- The role for Shh in the development of ventral telencephalon

Skin Biology Laboratory
Director: Professor, Jae-Sung Hwang (jshwang@khu.ac.kr)

Research Overview
Our research laboratory focuses on skin pigmentation and atopic dermatitis. As hyperpigmentation induced by UV irradiation or unusual pigmentation caused by medical conditions such as melasma, post-inflammatory melanoderma and solar lentigo is undesirable, the development of effective skin-lightening agents is essential. We are trying to elucidate the cause of hyperpigmentation and develop materials to treat such conditions. Atopic dermatitis (AD) is an itchy inflammatory dermatitis with a chronic course with remissions and exacerbations. AD occurs primarily in children, but persisting cases in adulthood as well as adult late-onset AD occur. It is estimated that about 20% of the population of the industrialized countries has an atopic constitution. We are trying to restore the integrity of the skin barrier, in particular the composition of the stratum corneum which appears to be of great importance for the development and progression of skin lesions in patients with AD.

Ongoing Projects
- Pathways and enzymes involved in skin melanin biosynthesis
- Post translational modification of tyrosinase and related enzymes
- Skin lipids and compounds which strengthen skin barrier function

Graduate School
Department of Food Science and Technology
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Our department offers comprehensive undergraduate and graduate programs that prepare students for leadership positions in the food industry, academia, and government. Through our educational and research programs, we assist students to expand their understanding and knowledge of the biological, chemical, microbiological, physical, nanotechnological, nutritional, processing, and engineering properties of foods. The well educated and nourished students discharged from in-depth programs in our department will be expected to make the modern society better healthful and prosperous. For more detailed information on our department, visit our homepage at http://fst.khu.ac.kr/.

Degree Requirements
- The minimum course credits for the doctoral program, excluding thesis guidance credits, are 36. For the master’s degree, the minimum course credits are 24, excluding thesis guidance credits.
- In order to submit a graduate dissertation, the applicant must pass a foreign language test and a qualifying examination.

Courses
Advanced Food Science, Advanced Nanotechnology, Advanced Food Processing, Advanced Food Biochemistry,
Advanced Bioprocessing and Bioengineering, Advanced Food Microbiology, Antioxidants in Food, Advanced Flavor Chemistry, Advanced Functional Food, Advanced Food Biotechnology, Current Topics in Food Science, Seminar

Faculty
Byung-Yong Kim, Ph.D. North Carolina State University, 1989, Professor, Bio-Rheology, bykim@khu.ac.kr
Seung-Kook Park, Ph.D. University of California, Davis, 1993, Professor, Food Chemistry, skpark@khu.ac.kr
Hae-Yeong Kim, Ph.D. Albert Einstein College of Medicine, 1994, Professor, Molecular Biology, hykim@khu.ac.kr
Cheon-Seok Park, Ph.D. University of California, Davis, 1997, Professor, Food Microbiology & Biotechnology, cspark@khu.ac.kr
Moo-Yeol Baik, Ph.D. University of Massachusetts, Amherst, 2000, Associate Professor, Food Processing, mooyeol@khu.ac.kr
Dae-Ok Kim, Ph.D. Cornell University, 2003, Associate Professor, Functional Food, DOKIM05@khu.ac.kr
Young-Rok Kim, Ph.D. Cornell University, 2003, Assistant Professor, Food Nanotechnology, youngkim@khu.ac.kr

Laboratories

■ Food Engineering Laboratory
Director: Professor, Byung-Yong Kim (bykim@khu.ac.kr)
Research Overview
Research interests include food rheology, food texture and optimization of the food formulation. Recent studies have involved fish protein gelation, and optimization of by-products for the food formulation. Methods of processing, storage, and packaging have received attention along with characterization of new products. Ideas for food equipment have been studied and laboratory prototypes developed.
Ongoing Projects
- Utilization of the enzyme hydrolysate for functional foods and optimization of formulation
- Data base of the amount of ethyl carbamate in traditional Korean liquors
- Quality mapping and searching the indicated proteins of optimized Chungkukjang production by using the proteomics

■ Food and Flavor Chemistry Laboratory
Director: Professor, Seung-Kook Park (skpark@khu.ac.kr)
Research Overview
Our research is focused on two major areas: the development and application of analytical chemistry techniques to study food chemistry, particularly in wine, coffee, tea, and beer and the elucidation of the chemical mechanisms for the formation of desirable and undesirable flavor compounds during processing.
Ongoing Projects
Our current research projects involve changes in volatile compounds of green tea during growing season, and off-flavor development from wine and beer fermentation.

■ Food Biochemistry Laboratory
Director: Professor, Hae-Yeong Kim (hykim@khu.ac.kr)
Research Overview
In the Food Biochemistry Lab, we carry out research on the identification and optimization of functional, nutritional, and health-related properties of foods using the recent recombinant technologies. Through our research, we identify the function and mechanism of food in human beings.
Ongoing Projects
- Microarray sensor for rapid detection of foodborne pathogens
- Isolation of iron and copper-storage elevated yeast and its characterization using proteomics
- Identification of allergy diagnostic markers by functional proteomics
- Safety assessment of genetically modified foods

■ Food Microbiology & Biotechnology (FMB) Laboratory
Director: Professor, Cheon-Seok Park (cspark@khu.ac.kr)
Research Overview
Our research laboratory mainly focuses on applied microbial engineering related to food microorganisms which produce many interesting functional biomaterials including industrial enzymes, functional secondary metabolites, and microorganism itself. There are three main topics being studied in our lab. First, bioconversions using microbial cells and/or enzymes in which we are making functional prebiotic carbohydrate materials including palatinose, maltooligosaccharides, and many transglycosylation products. Second, the production of functional secondary metabolites from useful fungal strains originated from traditional Korean food materials (Doenjang, Maeju, and Nuruk). We are interested in functional genomics of many metabolic pathway genes related with the anticholesterolemic, antimicrobial, and anticancer agents produced from many filamentous fungi. Third, we are trying to study the regulation of food pathogens via controlling various environmental factors based on the hurdle theory.

Ongoing Projects
- Functional genomic researches on food microorganisms originated from the Korean tradition fermented food
- Production of efficient bio-energy from fungal enzymes and cell wall-expanding protein
- Production of functional transglycosylated isoflavones using microbial transglycosylation enzymes
- Modification of Ginseng saponin using microbial transglycosylation enzymes

Food Processing Laboratory
Director: Professor, Moo-Yeol Baik (mooyeol@khu.ac.kr)
Research Overview
Our research goals are to develop the value-added technologies that are related to the modification of functional food ingredients such as carbohydrates, proteins and lipids, and their application in food and non-food products. Controlling water interaction and migration in various food systems is another area that we are interested in. Investigation of molecular dynamics, such as water and food biopolymer mobility/interaction is of great interest to us. The research field involving functional food ingredients and the interplay of water with food components will provide basic and applied knowledge. This is beneficial to the advancement of understanding of how food components interact with each other in various complex systems.

Ongoing Projects
- Physicochemical properties of cross-modified starches
- Non-thermal starch modification using ultra high hydrostatic pressure
- Development of value added Korean ginseng products using ultra high hydrostatic pressure and puffing

Functional Food Laboratory
Director: Professor, Dae-Ok Kim (DOKIM05@khu.ac.kr)
Research Overview
Our laboratory has been working on health-promoting effects from bioactive phytochemicals in fruits and vegetables in respect to nutritional, sensory, and nutraceutical qualities. Identification and quantification of bio-functional phytochemicals, especially phenolics, is based on the instrumental analyses using spectrophotometer, HPLC, LC/MS/MS, etc. Various chemical and enzymatic assays for antioxidant activity of phytochemicals from plants are currently used in our laboratory. For the investigation of in vitro effects (anticarcinogenic or antineurodegenerative effect) of bio-functional phytochemicals, we have used various cell lines such as human cancer cell lines and PC 12 cells. Fruit and vegetable processing has been also studied to evaluate its effects on the profile of phenolic phytochemicals and antioxidant activity.

Ongoing Projects
- Phenolics in lettuce and their protective effects on neuronal cells
- Characterization of flavan-3-ols in green teas organically grown in the Bosung area and their industrial applications to improve the quality of green tea products

Food Nanotechnology Laboratory
Director: Professor, Young-Rok Kim (youngkim@khu.ac.kr)
Research Overview
Our interests span a range of topics that are related with the Nanobiotechnology and its application to the Food Science and other biological research. It includes the development of nanomaterials for the advancement of food system and human health. We are working on a variety of problems related with the synthesis of biocompatible nanomaterials, integration of these materials with biological molecules, and confer them specific functions that can be deliverable to our body through food system. Upon scaling down the size of macroscopic materials into nano scale, the physical principles that determine the overall property of the system changes, and we are utilizing this phenomenon to develop an advanced food materials.

Ongoing Projects
- Development of smart nanoparticles for effective delivery of functional components in food
- Development of a fast label-free detection system using nanopore for the early diagnosis of infectious animal disease
- Development of high speed single nucleotide polymorphism detection using nanopore technology

Graduate School

Department of Oriental Medicinal Materials and Processing

The goal of Oriental Medicinal Materials and Processing, Graduate School of Kyung Hee University is to investigate new potentials of oriental medicinal materials, developing new medicines and cosmetic materials mission using oriental medicinal plants. The department has obtained 20,000 Expressed Sequence Tags (ESTs) from ginseng, Codonopsis lanceolata and other medicinal plants. Pharmaceutically active compounds in ginseng have been transformed, modified and amplified by mass production. Secondary metabolites from oriental medicinal materials have been isolated, with the chemical structures being determined. The biological and pharmacological activities have been evaluated conversion of major ginsenosides into pharmaceutically more active minor ginsenosides have been converted by microbial enzymes. New anti-alopecia agents from oriental medicinal plants have been found, with potential medicines and cosmetic products for alopecia being developed. Recently, research field has been expanded to new natural product for diabetes mellitus, diabetic complications, and auditory disorder. The department concentrates on molecular level work on oriental medicinal plants, trying to extract pharmaceutically active compounds and develop potential medicines, functional foods and cosmetics.

Degree Requirements
- At least 24 course units of graduate level credit in Oriental Medicinal Materials and Processing courses are required for the master’s degree, 36 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination in a foreign language and major subjects.
- Students must fulfill presentation, defense, and document requirements before the Oriental Medicinal Material and Processing department’s committee.
Courses
We concentrate on Oriental medicinal material production, breeding and processing. We conduct various seminars on Advanced Biotechnology for Oriental Medicine and Practice, Advanced Plant Genetic Engineering, Advanced Bioinformatics, Advanced Human Physiology, Biochemistry, Advanced Herbolage Herbal Medicine, Medicinal Plant, in seminar Biotechnology for Oriental Medicinal Materials. Advanced Pharmacological and Instrumental Analysis, Advanced Natural Products Biochemistry in seminar Natural Products Chemistry. Also, Advanced Herbal Medicine, Production and Analysis of Secondary Metabolite of Medicinal Plants.

Faculty
Young-Deok Rho, Ph.D. Wisconsin University, 1981, Professor, Plant Physiology, ydrho@khu.ac.kr
Nam-In Baek, Ph.D. Pharmaceutical Sciences, Osaka University, 1989, Professor, Natural Products Chemistry, nibaek@khu.ac.kr
Deok-Chun Yang, Ph.D. Kyung Hee University, 1990, Professor, Biotechnology, dcyang@khu.ac.kr
Se-Young Kim, Ph.D. University of Hawaii, 1991, Professor, Plant Cell and Tissue Culture, sekim@khu.ac.kr
Tae-Hoo Yi, O.M.D., Ph.D. Kyung Hee University, 2005, Associate Professor, Oriental Medicine, drhoo@khu.ac.kr
Tong-Ho Kang, Ph.D. Kyung Hee University, 2006, Assistant Professor, Herbal Pharmacology, panjae@khu.ac.kr

Laboratories
- Laboratory of Plant Physiology
  Director: Professor, Young-Deok Rho (ydrho@khu.ac.kr)
  Research Overview
  The lecture provides the basic knowledge for the improvement of the efficiency in the production of plant resources by studying growth and development processes, physiological phenomenon occurring in these processes and their relationship to the environment.

- Natural Products Chemistry Laboratory
  Director: Professor, Nam-In Baek (nibaek@khu.ac.kr)
  Research Overview
  Our research at the Natural Products Chemistry Laboratory focuses on the study of isolation of secondary metabolites from natural sources including oriental medicinal materials, determination of the chemical structure, and establishment of methods for instrumental analysis of the index compounds. Through our research, we develop novel and safe materials for drugs, cosmetics, functional foods and agrochemicals, which ultimately contribute to human health.

  Ongoing Projects
  - Development of method for mass production and technique for identification of ginsenosides from Panax ginseng
  - Study of the metabolomics of the secondary metabolites in the higher plants
  - Research on the active compounds for new cosmeceutical products from Lauraceae plants
  - Investigation of the active compounds for improvement of blood vessel system from Polygonum multiflorum

- Biotechnology Laboratory for Oriental Medicinal Materials (HanBangBio)
  Director: Professor, Deok-Chun Yang (dcyang@khu.ac.kr)
  Research Overview
  Our research (HanBangBio) is being done on oriental medicinal plants including ginseng. 1) More than 20,000 expressed sequence tags (ESTs) from ginseng, Codonopsis lanceolata and other medicinal plants have been obtained. New genes from the EST sequences have been identified and characterized. 2) Oriental medicinal plants including Codonopsis sp., Adenophora sp., etc. are re-identified by molecular taxonomic technique using ITS and ribosomal DNA sequences. After identification, molecular markers for discrimination of specific plants are developed. 3) Promoter regions of medicinal plant genes responsive to environmental stresses are identified. 4) Useful genes encoding biosynthetic enzymes for pharmaceutically active compounds in ginseng have been transformed to other plants and amplified for mass production. 5) A new vector system without antibiotic resistance genes is being developed for plant transformation. 6) Roots of medicinal plants (Sodium sp. and Rhodiola sp.) are
regenerated in vitro. 7) Major ginsenosides Rb1, Rg1 are biotransformed to pharmaceutically more active minor ginsenosides Rd, Rg3 and Rh2 by microbial enzymes. Many lactic acid bacteria and their enzymes were isolated and characterized. 8) Pathogenic fungi on medicinal plants were isolated and their distribution in Korean field is analyzed using molecular technique.

Ongoing Projects
- Mass production of ginsenoside using rhizosphere microorganisms
- Development of ginseng culture technique for post-4 year culture
- Development of new pharmaceutical material by microbial fermentation in medicinal plants
- Development of genetic maker for Chun-Poong cultivar
- Development of new functional material using saponin-biosynthetic genes
- Analysis of *Codonopsis lanceolata* EST
- Characterization of stress-resistant genes and their transformation
- Re-evaluation of ginseng product containing red ginseng

Laboratory of Plant Tissue Culture
Director: Professor, Se-Young Kim (sekim@khu.ac.kr)
Research Overview
Subjects include rapid multiplication of important plants, cell fusion, manipulation of genes, and secondary metabolites production via *in vitro* culture.

Laboratory of Oriental Medicinal Cosmetic Pharmacology
Director: Assistant Professor, Tae-Hoo Yi (drhoo@khu.ac.kr)
Research Overview
Our research laboratory focuses on developing functional food and cosmetic materials using oriental medicinal plants and studying their mechanism. Until now we have focused on finding anti-alopecia agents from oriental medicinal plants and developing drugs and cosmetic products for alopecia. Most cases of hair loss seen in clinical practice mainly represent disturbances of the cycle of hair follicle are based on a premature termination of anagen. So we have been studying that herbal medicinal plants that prevent anagen to telogen transformation and stimulate telogen to anagen transformation in the C57BL/6 mouse resulting in both cellular proliferation and protein synthesis increase. Furthermore we focus on cell regeneration and mutual delivery mechanisms between the skin and drugs as well as a host of innovative products for aging prevention, whitening, hydration, etc. We also study delivery systems for effective oriental medicinal materials.

Ongoing Projects
- Development of hair follicle and hair cycle destruction/recovery mouse model for anti-alopecia agent evaluating system (APES)
- Oriental medicinal plants screening for promoting hair growth by using keratinocyte and dermal papilla cells

Herbal Pharmacology Laboratory
Director: Assistant Professor, Tong-Ho Kang (panjae@khu.ac.kr)
Research Overview
Our laboratory mainly focuses on the in vivo study of diabetes, diabetic complications, and auditory impairments. We are investigating the new leading products from the oriental medicine or natural products for the protection of chronic diseases. Through our research, our laboratory will develop functional foods and/or natural new drug with pharmaceutical/food company.

Ongoing Projects
- Screening of potent compounds for Nerve Growth Factor (NGF) induction
- Study of ototoxic protection by oriental medicine in animal model
- Study of diabetic neuropathy in animal model
- Study of noise induced hearing loss protection by natural product in animal model
The Department of Horticulture seeks to give students direct exposure to the practice of olericulture, pomology, floriculture, plant breeding, and biotechnology by maintaining well-equipped laboratories, modern greenhouses, growth chambers and field facilities, including research plots and orchards. The department has been operating its master’s program since 1974, and its doctoral, since 1976. M.S. and Ph.D. degrees are offered with specializations in horticultural crop physiology and production, plant breeding and genetics, seed science, tissue culture, and plant molecular biology. Current areas of research in the department include development of vegetable seed coating techniques, improvement of thinning methods in apple trees, cultivar development of cyclamen, plant transformation, molecular marker development, and functional genomics.

Degree Requirements
- At least 24 course units of graduate level credit in Horticulture courses are required for the master’s degree and 36 courses units for the doctoral degree.
- Students must pass a qualifying examination.

Courses
- Advanced Pomology
- Advanced Floriculture
- Advanced Pomology
- Advanced Breeding of Horticultural Crops
- Advanced Protected Horticulture
- Advanced Physiology of Horticulture
- Advanced Molecular Biology in Horticultural Crops
- Advanced Seed Production of Horticultural Crops
- Advanced Pathology of Horticultural Crops
- Seminar in Horticultural Science
- Advanced Tissue Culture of Horticultural Crops

Faculty
- Jung-Myung Lee, Ph.D. University of Minnesota, 1973, Emeritus Professor, Vegetable Physiology, jmlee@khu.ac.kr
- Seung-Woo Lee, Ph.D. Kyung Hee University, 1984, Professor, Floriculture, swolee@khu.ac.kr
- Geun-Won Choi, Ph.D. University of Illinois at Urbana-Champaign, 1989, Professor, Plant Breeding & Genetics, cwon@khu.ac.kr
- Young-Doo Park, Ph.D. North Dakota State University, 1993, Associate Professor, Plant Molecular Biology, ydpark@khu.ac.kr
- Youn-Hyung Lee, Ph.D. University of Houston, 1993, Associate Professor, Biochemistry, younlee@khu.ac.kr

Laboratories
- Vegetable Research Division
  - Director: Professor, Jung-Myung Lee (jmlee@khw.ac.kr)
  - Research Overview
    - Primary research interests of the Vegetable Research Division are the improvement of cultivation methods utilizing advanced technologies and the production and utilization of environment-friendly and function-enriched vegetables. The results obtained from the ongoing research such as seed treatment and processing technology, seedling...
production including grafting, and utilization of plant bioregulators are well-recognized over the world.

- **Plant Breeding Laboratory**
  Director: Professor, Geun-Won Choi (cwon@khu.ac.kr)
  
  **Research Overview**
  Our research at the Plant Breeding Laboratory is in the area of plant molecular breeding with emphasis on the development and utilization of molecular markers and Agrobacterium-mediated gene transfer in horticultural crops. Through our research, we develop various molecular markers to increase the efficiency of plant breeding and functional transgenic crops.
  
  **Ongoing Projects**
  - Development of highly functional transgenic chicory
  - Breeding of an insect-resistant tomato cultivar
  - Development of a dwarf chrysanthemum using gene silencing

- **Plant Molecular Genetics Laboratory**
  Director: Professor, Young-Doo Park (ydpark@khu.ac.kr)
  
  **Research Overview**
  Our research at the Plant Molecular Genetics Laboratory focuses on the study of functional genomics, gene silencing, and isolation of useful genes. Through our research, we develop useful techniques and genetic pool for functional genomics, and also develop new varieties of crop that have new characteristics and function.
  
  **Ongoing Projects**
  - Development and function analysis of gene in Chinese cabbage by gene tagging technology
  - Development of functional vegetable crops by molecular breeding technique
  - Development of transgenic Chinese cabbage with Bt gene

- **Floriculture Laboratory**
  Director: Professor, Seung-Woo Lee (swolee@khu.ac.kr)
  
  **Research Overview**
  Major research interests of the Floriculture Laboratory are the improvement of potting plant quality using advanced technology and the mass production of ornamental plants by plant tissue culture technique. Also, we develop useful cultivation methods for native plants.
  
  **Ongoing Projects**
  - Establishment of transformation and mass propagation system for potting plant production of Hanabusaya asiatica
  - Collection and preparation of field for native plant
  - Development of technique for mass propagation of orchid by plant tissue culture
  - Development of technique for the regulation of flowering in potting plant

- **Functional Materials and Metabolic Engineering Laboratory**
  
  Our research at the Functional Materials and Metabolic Engineering Laboratory at Kyung Hee University focuses on the development of new biomaterials through examination for anti-cancer, anti-oxidant and high blood pressure suppression (antitherogen antihyperlipidemia) from fruits and edible plants. Extracts from active plants with anti-cancer, anti-oxidant and anti-high blood pressure activity are selected through conventional and high-throughput technology including transcriptomics, proteomics and metabolomics. The selected plants are isolated from active materials, the chemical components determined and animal experiments are carried out in order to determine their potentials for mass production. Also, the active materials are produced in mass scale to research on action mechanism.
  
  **Ongoing Projects**
  Development of new anti-cancer, anti-oxidant and antihyperlipidemic biomaterials from fruits and plants
The impact of human civilization on Earth’s ecosystem is not clearly understood. The human species is changing Earth’s ecosystem in a manner not planned, desired, or predicted. There is a growing concern that our future demands for ecological services may not be met with current approaches to ecosystem management and conservation. The demand for engineering solutions to ecosystem-level problems has increased as the impact of human activities has expanded to global proportions. Ecosystem Engineering Department offers a rare opportunity of combining broad disciplines of engineering and ecosystem management sciences to overcome the high degree of complexity and uncertainty associated with the issues.

Degree Requirements
- At least 24 course units of graduate level credit in Ecosystems Engineering are required for the master’s degree and 48 course units for the doctoral degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements in Ecosystem Engineering thesis committee.

Courses
We use science-based quantification of ecological processes to develop and apply engineering-based design criteria for sustainable systems. Core courses in ecosystem theory include Quantitative Ecology, Systems Ecology, Restoration Ecology, Ecological Engineering, and Ecological Modeling. Advanced courses in ecosystem informatics, parks and outdoor recreation, and forest resource management are also provided to address students’ specific professional objectives.

Faculty
Young-Chai Kim, Ph.D. Kyung Hee University, 1982, Professor, Silviculture, yckim@khu.ac.kr
Jin-I Yun, Ph.D. Iowa State University, 1985, Professor, Agricultural Climatology, jiyun@khu.ac.kr
Hyun-O Jin, Ph.D. Tokyo University of Agriculture and Engineering, Japan, 1988, Professor, Forest Soil Science, hojin@khu.ac.kr
Ung-Jin Kim, Ph.D. The University of Tokyo, 2002, Assistant Professor, Biomaterials Science, sbpujkim@khu.ac.kr
Jae-Heung Ko, Ph.D. Yonsei University, 1997, Assistant Professor, Plant Functional Development, jhko@khu.ac.kr
Masahisa Wada, Ph.D. The University of Tokyo, 1997, Professor, Biomaterials Science, awadam@mail.ecc.u-tokyo.ac.jp

Laboratories
- Agricultural Climatology Laboratory
  Director: Professor, Jin-I Yun (jiyun@khu.ac.kr)
  Research Overview
  The Agricultural Climatology Lab is pioneering new approaches for addressing climate-related problems in the regional ecosystem. The mission is to develop capabilities to quantitatively describe the response of ecosystems to
the climate, from micro to regional scales, using emerging technologies in meteorology, geographic information systems, remote sensing, computer simulation and visualization, and biophysical theory. We have executed a number of studies on agricultural and natural ecosystems. Projects have involved diverse scales of ecological study and integrate biometeorology, remote sensing, geographic information systems, and modeling.

Ongoing Projects
- Application of geospatial climatology for operational agrometeorological forecasting at watershed scale (Ministry of Agriculture & Forestry, 2006-2009)
- Digital climate modeling at watershed scales by combining synoptic data with geospatial information (Korea Meteorological Administration, 2006-2008)

Resources & Environment of Ecosystems Engineering Laboratory
Director: Professor, Hyun-O Jin (hojin@khu.ac.kr)
Research Overview
At The Resources & Environment of Ecosystems Engineering Laboratory, we study environmental resources of forest ecosystems. Particularly, our research focuses on the study of forest soil and effect of precipitation. Soil has buffer capacity for environmental pollution (acid rain, wet and dry deposition) and precipitation is important as nutrient source and transport. Our study examines their characteristics and the interaction between those factors and the forest environment.

Ongoing Projects
- Effect of acidified soils and ectomycorrhizae on the growth for Pinus Koraiensis and Quercus acutissima seedlings
- Effects of artificially acidified soils on the growth and nutrient status of Pine seedlings
- Dynamics of solute elements through precipitation at natural deciduous hardwood forests

Development of Ecosystems Engineering Laboratory
Director: Professor, Young-Chai Kim (yckim@khu.ac.kr)
Research Overview
The design of sustainable ecosystems integrates human society with its natural environment for the benefit of both. We study the natural environment of the country’s ecosystem and look for ways to reduce environmental pollution and raise the awareness for conservation. The management of ecological resource is crucial for all living things including genetic sources of plants. A sound policy of ecological management and constitution in needed.

Ongoing Projects
- Study of material biomass facility
- The acidity and chemical and composition of snowfall at Pinus koraiensis stand near high way
- Comparison with acidity and chemical properties of dew at forest stands

Biomass New Resources Laboratory
Director: Assistant Professor, Ung-Jin Kim (sbpjkim@khu.ac.kr)
Research Overview
The research at Biomass New Resources Laboratory focuses on the development of new functional biomaterials from the natural polysaccharides such as cellulose, chitin, chitosan, and so on. This research will provide fundamental information on the utilization of polysaccharides as a novel types of several application fields; drug delivery system, heavy metal removal, polysaccharides derivatives, tissue engineering materials, immobilized-enzyme for bio-ethanol and detection of disease germs.

Ongoing Projects
- Functional biomaterials from cellulose hydrogel by surface modification (the Ministry of Education, Science and Technology, 2010-2012)
- Development of bio- and nano-materials from polysaccharides
- Development of scaffolds, films and gels for tissue engineering from cellulose and silk

Biomass Functional Development Laboratory
Director: Assistant Professor, Jae-Heung Ko (jhko@khu.ac.kr)
Research Overview
Secondary walls have recently drawn research interests as a primary source of sugars for liquid biofuel production. Secondary wall is composed of a complex mixture of cellulose, hemicellulose, and lignin. Expanding bioenergy
production to a scale of commercial will require significant improvement in the growth of feedstock as well as its quality, including sustainable 'low-input production' system and cost-effective bioconversion of the feedstock to liquid fuels. Pathway-specific manipulation of metabolisms will lead to targeted changes in chemical and physical properties of the resulting plant biomass. In this laboratory, we focused on the genetic regulation of secondary cell wall biosynthesis and biotechnological Improvements of Plant Biomass using cutting-edge biotechnology and bioinformatics.

**Ongoing Projects**

- Genetic regulation of secondary wall biosynthesis
- Functional development of biomass feedstock
- Identification of utility promoters

### Structural Biopolymer Laboratory

**Director: Professor, Masahisa Wada (awadam@mail.ecc.u-tokyo.ac.jp)**

**Research Overview**

Structural biopolymers such as cellulose and chitin produced by living organisms are abundant organic resources on the earth. Recently, effective utilization and enhancing versatility of these biopolymers are being required from a conservation perspective. The aim of our study is to clarify structures, physical properties, chemical reactions, and peculiar phenomena of these biopolymers, and utilize the knowledge obtained for constructions of highly functional materials.

**Ongoing Projects**

- Elucidation of biosynthesis mechanism of cellulose and chitin
- Relationship between solid-state structures and physical properties of polysaccharides
- Structural analysis of polysaccharide gels and searching those applications

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### Graduate School

#### Department of Landscape Architecture

Tel: +82 31 201 2658  Fax: +82 31 204 8127  E-mail: art2630@khu.ac.kr  URL: http://web.kyunghee.ac.kr/~adland/index.htm

Landscape architecture is a synthesized and applied arts and science that contributes directly to public welfare by producing comfortable living environments. The Dept. of Landscape Architecture aims to produce skillful landscape architects and scholars capable of creating a sound and sustainable environment for the public. The Dept. of Landscape Architecture has offered the master's of landscape architecture (M.L.A) degree since 1980 and the doctoral degree since 1982. In total, 84 students have received M.L.A. degree and 49 students Ph.D. degrees since then. Today, 9 students are enrolled in the M.L.A. degree program and 6 students in the Ph.D. degree program.

Landscape architects create 'landscapes' ranging from garden scale to regional scale while considering the balance between the preservation and the development. During the course of study, students immerse themselves in a number of courses in the field of botany (to employ plants as landscape architectural materials), aesthetics (to find expression for their artistic inclinations), and engineering (to bring their artistic visions into reality).

**Degree Requirements**

- At least 24 course units of graduate level credit in Landscape Architecture courses are required for the master's
degree, 36 course units for the doctoral degree (including units completed in the master’s courses).

- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the LA thesis committee.
- A thesis advisor can be any faculty member from the LA department.

Courses


Faculty

Dong-Chan Kim, Ph.D. Kyung Hee University, 1987, Professor, Landscape Architectural Design, dckim@khu.ac.kr
Joo-Hwan Suh, Ph.D. Kyung Hee University, 1987, Professor, Visual Resources Management, jhshu@khu.ac.kr
Do-Kyong Kim, Ph.D. Korea University, 1996, Professor, Landscape Planning & Design, kimdk@khu.ac.kr
Shin-Won Kim, Ph.D. Kyung Hee University, 1996, Professor, Landscape Planning & Design, kimsw@khu.ac.kr

Laboratories

- Landscape Architecture Design Studio
  URL: http://www.landscapei.co.kr/
  Director: Professor, Dong-Chan Kim (dckim@khu.ac.kr)

  Research Overview
  Our research at the Landscape Design Laboratory of Kyung Hee University focuses on the study of Park & Garden Design, Land Art, Traditional Landscaping, and History of Landscape Architecture. Through our research, we create well-being human environments not only on the exterior space but also on the interior space.

  Ongoing Projects
  - A study of rockeries of traditional Korean gardens
  - A study of evaluation of sidewalk-spaces according to planting types
  - A study of selection of scenic area for designating as cultural assets
  - A study of waterscape facilities in apartment areas considering residents’ preference

- Landscape Information Aesthetic Science
  URL: http://web.kyunghee.ac.kr/~jhshu/
  Director: Professor, Joo-Hwan Suh (jhshu@khu.ac.kr)

  Research Overview
  For the qualitative improvement and the preservation of landscape, we perform research that is related to the natural ecosystem such as landscape formation, physical composition of the landscape, and the effect of human activity in nature. Furthermore, we study all aspects of the landscape: visual, aesthetics, and psychophysics.

  Ongoing Projects
  - Top 100 Korean wave (Hallyu) design classification and industrial application plan
  - Entry space landscape plan at Kyung Hee University Global Campus
  - Land suitability assessment in Gyeongju
  - Uijeongbu landscape masterplan
Site Planning & Design Studio
Director: Professor, Do-Kyong Kim (kimdk@khu.ac.kr)
Research Overview
Our studio’s research and projects are focused on the study of Park & Garden design, Housing development, and Resort development. Furthermore, we study not only the big scale sites of the city, but also all spaces where people live.
Ongoing Projects
- Issues of the Cheonggyecheon Restoration Project
- Landscape design of Osong Biohealth Technopolis Institute
- Landscape design for the Song-Do Apartment Complex Development

Urban Space Design Studio
URL: http://web.kyunghee.ac.kr/~landart/
Director: Professor, Shin-Won Kim (kimsw@khu.ac.kr)
Research Overview
Concentrating on urban design and landscape development, our studio’s research and projects are organized around three interwoven components. The first is a critical assessment of the principles of the contemporary movement in architecture, landscape architecture and planning. Secondly, theories of past and present contextual designers are examined. Finally, various works and studies are carried out to show how the principles and theories come together in real projects.
Ongoing Projects
- A study of the rural village planning in Hwasung City
- A plan of rural housing development in Yangji-myun
- A study of the creation of landscape architectural areas under the National and Regional Land Development in North Korea
- A study of the creation of revolutionary monuments in North Korea

Graduate School
Department of Applied Environmental Science
Tel: +82 31 201 2426 Fax: +82 31 204 4589 E-mail: env518@khu.ac.kr URL: http://env.khu.ac.kr

Department of Applied Environmental Science is an area of highly applied science to solve the environmental problems such as degradation of eco-system, water contamination, air pollution, soil contamination and municipal waste treatment. The department curriculum offers comprehensive environmental science and technology including environmental management, eco-business, environmental education and toxicology. In particular, process designs are the essential courses in the systematic curriculum in order to be an environmental engineer needed in practical industries. Students completed the assigned courses would be credentialed to teach the tertiary courses and to work at the advanced engineering field. They can play important roles in colleges, R&D centers, industry and government. In addition they may be able to advance to the teachers by taking an educational course. The department makes an effort to train the students eligible for global competition and leadership.
Degree Requirements

- At least 24 course units of graduate level credit in Department of Applied Environmental Science courses are required for the master's degree, 36 course units for the doctoral degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Department of Applied Environmental Science thesis committee.
- A thesis advisor can be any faculty member from the Department of Applied Environmental Science department.

Courses


Faculty

Young-Il Cha, Ph.D. Syracuse University, 1981, Professor, Plant Ecology, yicha@khu.ac.kr
Dong-Sool Kim, Ph.D. University of Illinois at Urbana Champaign, 1987, Professor, Air Pollution Control, atmos@khu.ac.kr
Gye-Dae Whang, Ph.D. University of Texas at Austin, 1985, Professor, Wastewater Treatment Processes, gdwhang@khu.ac.kr
Jong-Min Oh, Ph.D. Tokyo University of Agriculture and Technology, 1992, Professor, Water Quality Control and of Aqua-ecosystem Management, jmoh@khu.ac.kr
Young-Min Jo, Ph.D. University of New South Wales, 1996, Professor, Particle and Air Pollution Control, ymjo@khu.ac.kr
Sun-Jin Hwang, Ph.D. Tokyo University, 1997, Associate Professor, Solid Waste Treatment, sjhwang@khu.ac.kr
Min-Kyeong Yeo, Ph.D. Kyung Hee University, 1996, Assistant Professor, Environmental Animal Physiology, bioclass@khu.ac.kr
Chang-Kyoo Yoo, Ph.D. POSTECH, 2002, Assistant Professor, Environmental Management & Systems, ckyoo@khu.ac.kr
Ga-Young Yoo, Ph.D. University of Illinois, 2004, Assistant Professor, Soil & Environmental Ecology, gayoo@khu.ac.kr
Boo-ki Min, Ph.D. The Pennsylvania State University, 2005, Assistant Professor, Environmental Biotechnology, bkmoin@khu.ac.kr
Tae-Hoe Koo, Ph.D. KyungNam University, 1996, Emeritus Professor, Animal Ecology, thkoo@khu.ac.kr

Laboratories

- Laboratory of Atmospheric Environment
  
  Director: Professor, Dong-Sool Kim (atmos@khu.ac.kr)

Research Overview

The research works at the Laboratory of Atmospheric Environment in Kyung Hee University includes studies of air pollution control and management, physical and chemical properties of various indoor/outdoor air pollutants, and receptor models in order to clean and maintain good air quality and to achieve cost effective control strategies.
Ongoing Projects
- Improvement plans for atmospheric environment
- Development of indoor air quality management technology for the future urban wellbeing life: Developing basic plans for reduction of green house gases
- Estimation of emissions of green house gases
- Emission characteristics and management plan of major industrial odor sources

WasteWater Treatment Process Laboratory
Director: Professor, Gye-Dae Whang (gdwhang@khu.ac.kr)
Research Overview
Our research at the WasteWater Treatment Process Laboratory of Kyung Hee University focuses on the removal of nitrogen and phosphorus, development of wastewater treatment process and wastewater sampling. Through our research, we estimate and analyze the treatment process; and then we investigate field application.

Ongoing Projects
- A study on the efficient removal of the nitrate used hydrogen gas
- A study on the sequential-frequency sonication for improving anaerobic digestion
- A study on the coupling of membrane bio reactor and A2O process for efficient removal of organic material

Hydrosphere and Soil Environmental Management Group
URL: http://club.cyworld.com/water-lab
Director: Professor, Jong-Min Oh (jmoh@khu.ac.kr)
Research Overview
Our research focuses on the study of Water Quality Management, based on limnology including Water Treatment, River and Reservoir Restoration, Environmental-Friendly Material Design, Water and Sediment Monitoring, Dredged Sediment Recycle, Non-Point Source Management, and development of water purification tools. The lab philosophy is to create safe water environment and ecological restoration of river and reservoir.

Ongoing Projects
- A study of dredged sediment recycle from Four-Great-River Restoration Project, reservoir, and stream
- A study of solidification/stabilization agent development for contaminated soil and sludge
- A study of water purification material development by BIO concrete
- A study of water quality and physical status monitoring in stream and reservoir
- A study of floating island for water purification
- A study of aeration equipment development by nano-scale bubble

Particle & Air Pollution Control Lab
URL: http://web.khu.ac.kr/~env/intro_prof/air-particle/particle-g.htm
Director: Professor, Young-Min Jo (ymjo@khu.ac.kr)
Research Overview
The lab deals with particle processing and air pollution control more focusing on experimental work. Research area includes hot gas cleaning, filter & filtration, CO₂ capture through adsorption and absorption, odor control, synthesis of nano-materials such as hydrogen storage, and incineration technology. People in the lab often participate in consulting on public claims and in governmental contract research work.

Ongoing Projects
- Enhancement of adsorption selectivity for low level CO₂ in the indoor air
- Development of artificial intelligence air quality control and management system for subway station and tunnels
- Analysis of elements from municipal solid waste

Clean Technology Laboratory
URL: http://ectl.khu.ac.kr/
Director: Professor, Sun-Jin Hwang (sjhwang@khu.ac.kr)
Research Overview
We want to express a hearty welcome to Clean Technology Lab (CTL) in the Department of Environmental Science and Engineering, Kyung Hee University!
CTL have been trying to solve the global energy crises, recently magnified as a big environmental issue, and
contribute on waste resourcification (waste biomass) and energy production. Our major research area contains CO\textsubscript{2} fixation and bio-fuel production by using micro-algae, clean bio-H\textsubscript{2} production by dark-fermentation, and biological odor control systems applied polymer of third generation media.

**Ongoing Projects**
- Study on CO\textsubscript{2} fixation by Biological CCR (Carbon Capture and Recycle) System
- Production of Bio-ethanol from Micro-Algae
- Biological hydrogen (Bio-H\textsubscript{2}) production from dark-fermentation
- Microbial community analysis by molecular biological methods
- Human resource development project for energy from waste & recycling

**Environmental Management & Systems Engineering Laboratory (EMSEL)**
URL: [http://emsel.khu.ac.kr](http://emsel.khu.ac.kr)
Director: Associate Professor, Chang-Kyoo Yoo (ckyoo@khu.ac.kr)

**Research Overview**
Our research at Kyung Hee University focuses on the study of Environmental Management & Systems Engineering. We do research on the finding the problems of environmental systems and developing the best available technologies on them by using the systems engineering tools, such as, modeling, optimization, information technology (IT), geographic information system (GIS) and so on.

**Ongoing Projects**
- Tools and techniques for environmental modeling and software
- Design, modeling and optimization of wastewater treatment systems: activated sludge model (ASM)
- Analysis and design of water supply network system (smart IT)
- Environmental fate modeling of chemicals and nano-materials
- Modeling and support tools for management and optimization of the integrated wastewater system
- Modeling climate change impacts: wastewater treatment systems
- Sustainable development of eco-industrial park (EIP) using GIS and mass flow analysis technology
- Development of artificial intelligence air quality control and management system for subway stations and tunnels
- Brain Korea 21 education program for environmental informatics

**Lab of Environmental Risk Assessment**
Director: Professor, Min-Kyeong Yeo (bioclass@khu.ac.kr)

**Research Overview**
- The effect of nano-scale Zn-doped TiO\textsubscript{2} and pure TiO\textsubscript{2} particles
- Gene expression in zebrafish embryos following exposure to TiO\textsubscript{2} nanoparticles
- Comparison of the Effects of Nano-silver Antibacterial Coatings and Silver Ions on Zebrafish Embryogenesis
- Effects of Cu\textsubscript{x}Ti\textsubscript{y}O\textsubscript{z} nanometer particles on biological toxicity during zebrafish embryogenesis
- Synthesis of nanometer sized Bi\textsubscript{2}WO\textsubscript{6} by a hydrothermal method and their conductivities
- Toluene Decompositions over Al-W-incorporated Mesoporous Titanosilicates Photocatalysts
- Effects of nanometer sized silver materials on biological toxicity during zebrafish embryogenesis
- Exposing zebrafish to silver nanoparticles during caudal fin regeneration disrupts caudal fin growth and p53 signaling
- Methyl orange removal over Zn-incorporated TiO\textsubscript{2} photo-catalyst
- The biological toxicity to Zebrafish (Daniorerio) on Na- and K-TiO\textsubscript{2} photocatalytic system during the decomposition of Bisphenol A
- Photo decomposition of Bisphenol A on nanometer-sized TiO\textsubscript{2} thin film and the associated biological toxicity to zebrafish(Daniorerio) during and after photocatalysis

**Ongoing Projects**
- Environmental risk assessment of nano sized materials
- The analysis of Nano sized materials researches
- Risk assessment of endocrine disruptors
Laboratory for Applied Ecology
Director: Assistant Professor, Ga-Young Yoo (gayoo@khu.ac.kr)

Research Overview
Laboratory for applied ecology focuses on application of ecological theories and principles to give implications on solving environmental problems. Our main research topics are ecological management of soil ecosystem to mitigate climate change such as biochar application or organic amendment to soils, climate change vulnerability assessment on community basis, development of climate change adaptation strategies.

Ongoing Projects
- Effects of biochar application to soils and relation to soil structure and carbon dynamics
- Assessment of carbon sequestration potential in grassland ecosystem
- Development and application of climate change vulnerability assessment
- Development of a methodology to assess adaptation policies and measures

Environmental Bioenergy and Biotechnology Laboratory (EBBL)
Director: Assistant Professor, Boo-Ki Min (bkmin@khu.ac.kr)

Research Overview
Our research at Environmental Bioenergy and Biotechnology Laboratory (EBBL) focuses on capturing renewable bioenergy from the biomass and waste water, and also cleaning up environmental pollution. The EBBL group study biological process, bioelectrochemical process, microbiology, and chemistry to design an engineered bio-system for sustainable and environmental friendly development of human society.

Ongoing Projects
- Microbial fuel cell for electricity generation from waste/wastewater and algae
- Bioelectrochemical reaction for pollutant removal
- Fermentation process, Anaerobic digestion
- Biological waste/wastewater treatment,
- Bioremediation, Ecological Engineering

Food Web and Ecosystem Research Laboratory
URL: https://sites.google.com/site/changkwang38/
Director: Assistant Professor, Kwang-Hyeon Chang (chang38@khu.ac.kr)

Research Overview
Our research focuses on understanding biological interactions in the food web and analyses of function and structure of various ecosystem. We analyze and estimate how ecosystem is interacting with surrounding environments and the role of food web structure and function in maintaining ecosystem function.

Ongoing Projects
- A study of biological interactions among plankton in aquatic ecosystems
- A study of planktonic food web responses to various environmental stresses
The department was established in 1992. Astronomy & Space-Science is a discipline involving the investigation of celestial phenomena in the universe. Due to the rapid development of scientific technology, research areas are being extended day by day. By means of spacecraft and space expeditions - which were widely unimaginable in the early 20th century - new discoveries have been made. Space telescopes have revealed much more than could have been seen before. Therefore, the astronomical knowledge of the universe is not only possible but in high demand. The department takes inspiration from the infinite potential of its discipline. To facilitate new research endeavors, it is especially proud to offer students use of the largest 76cm telescope of any Korean university.

The principal goal of the department is to train professional scientists through course work and hands-on experimentation. At present, the graduates of our department are engaged in government institutes (Korean Astronomy Observatory, Radio Observatory, etc.) and the private sector (Korea Telecom, Korean Air Lines, etc.).

Degree Requirements

- At least 24 course units of graduate level credit in Astronomy & Space-Science courses are required for the master’s degree and 36 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the astronomy & space-science thesis committee.
- A thesis advisor can be any faculty member from the Astronomy & Space-Science Department.

Courses


Faculty

Kap-Sung Kim, Ph.D. Kyoto University, 1988, Professor, Solar Physics, Celestial Mechanics, kskim@khu.ac.kr
Dong-Hun Lee, Ph.D. University of Minnesota, 1990, Professor, Space Physics, dhlle@khu.ac.kr
Sang-Joon Kim, Ph.D. New York State University, 1982, Professor, Solar System Astronomy, IR Observation, sjkiml@khu.ac.kr
Min-Hwan Jang, Ph.D. Georgia State University, 1995, Professor, Astronomy, Variable Star, mjang@khu.ac.kr
Sung-Soo S. Kim, Ph.D. University of California Los Angeles, 2000, Associate Professor, Stellar/Galactic Dynamics, Young Star Clusters, Galactic Centers, sungsoo.kim@khu.ac.kr
Soo-Jong Pak, Ph.D. University of Texas at Austin, 1997, Associate Professor, Infrared Instrumentation, Star Formation,
Laboratories

• Planetary Astronomy Laboratory (PADRA: Planetary Astronomy Data Reduction and Analysis)
  URL: http://space.khu.ac.kr/~padra
  Director: Professor, Sang-Joon Kim (sjkiml@khu.ac.kr)
  The Planetary Astronomy Laboratory, PADRA, was established for studying planetary data reduction and analysis on Oct. 2, 1997. The members are studying solar system objects except the Sun and the Earth. We would like to derive the physical and chemical features of the solar system objects with observations and theoretical modeling.
  • Research on the atmospheres of giant planets with Saturn and Jupiter's IR data from IRTF
  • The Solar Absorption Line with IR data obtained by ATMOS
  • Research on the temperature distributions of Jovian stratosphere with IR spectroscopic data from Voyager 1 and 2
  • Research on CH3D IR emissions from Titan atmosphere
  • Modeling of CH4 IR emissions from Comets

• Space Physics Laboratory
  Director: Professor, Dong-Hun Lee (dhlee@khu.ac.kr)
  Research Overview
  Our research subject is to understand the space environment around the earth. Current topics include:
  • Magnetospheric waves and instabilities
  • Magnetohydrodynamic waves and plasma waves
  • Space environmental measurements and data analysis
  • Electromagnetic wave propagation in an inhomogeneous medium
  • Nonlinear wave properties in non-uniform plasmas
  Ongoing Projects
  • Space Environment Lab for Solar-Terrestrial-Planetary Relationship (KOSEF: Advanced Basic Research Laboratory)

• Solar Physics Laboratory
  Director: Professor, Kap-Sung Kim (kskim@khu.ac.kr)
  Research Overview
  Our research lab focuses on the observational and theoretical studies of the growth of instabilities on the solar surface including the photosphere and corona. The solar activities can influence the performance and reliability of space-born and ground-based technological systems and can endanger human life on Earth. The studies of structure and evolution of the solar active regions are accomplished using various wavelength data (UV, X-ray, H, etc.) and help us to understand the space environment. Also the sun, as a typical star in the universe, serves an important role in helping us to understand other stars.
  Ongoing Projects
  • Construction of the real time solar image acquisition system
  • Spectroscopic analysis of the solar atmosphere
  • Space weather forecasting
  • Orbit computation of the celestial bodies
  • Image processing and analysis

• Astrophysics Laboratory
  Director: Professor, Sung-Soo S. Kim (sungssoo.kim@khu.ac.kr)
  Research Overview
  Our research areas include dynamical evolution of star clusters and the galaxy centers, hydrodynamics of molecular gas in the central 200-pc of our galaxy, mass distribution near the supermassive black hole at the center of our galaxy.
We also plan to study the mass function evolution of the Galactic globular cluster systems, and the comparison of velocity dispersion in the outer region of globular clusters from observations and simulations.

**Ongoing Projects**

**Research Topics**
- Dynamical evolution of star clusters near the Galactic center
- Simulations of Galactic Warps
- Dynamical friction of a star cluster with a central intermediate-mass black hole
- Hydrodynamic simulation of 200-pc Molecular Ring of our galaxy
- Mass distribution near the central supermassive black hole of our galaxy
- Secular Evolution of the center of our galaxy
- Evolution of the mass function of the Galactic globular systems

### Infrared Laboratory

**Director:** Professor, Soo-Jong Pak (soojong@khu.ac.kr)

**Research Overview**

Our lab builds infrared instruments including cameras and spectrometers. These instruments are installed on ground-based optical/infrared telescopes or on space infrared telescopes for astronomical observations. Infrared observations can reveal the embedded processes in the forming stars and in the central regions of galaxies where the dust extinction prohibits the optical observations. We can also observe the redshifted radiations from distant galaxies in infrared bands.

**Ongoing Projects**
- Building near-infrared camera for a ground based telescope
- Building near-infrared camera and spectrometer for a sounding rocket
- Design of infrared spectrometer for ground and space infrared telescopes

### Solar and Heliospheric Plasma Physics Laboratory (SHPPL)

**Director:** Professor, Gwang-Son Choe (gchoe@khu.ac.kr)

**Research Overview**

The SHPPL was established in 2006 to study global and meso-scale plasma processes in the Sun and the heliosphere. Numerical simulations as well as analytical works are performed. Our research pursues the dynamic evolution of a magnetized plasma system and also seeks for static solutions under diverse global constraints and boundary conditions. Among the phenomena under investigation are solar flares, coronal mass ejections, formation and eruption of solar prominences, interaction of solar wind disturbances with the planetary magnetosphere, and geomagnetic substorms.

**Ongoing Projects**
- Three-dimensional magnetic field structures in the solar atmosphere and their evolution into solar eruption (Korea Research Foundation)

### Space Weather Laboratory

**Director:** Professor, Yong-Jae Moon (moonyj@khu.ac.kr)

**Research Overview**

Our research lab focuses on observational studies of solar activities and Sun-Earth connection. For this we use ground-based and space-based solar, interplanetary, and geomagnetic data including filtergram, imaging spectroscopy, and polarimetry. Our main research subjects are: (1) solar eruption, (2) connection between solar events and geomagnetic storms, (3) forecast of solar high energy particle events, (4) application of machine learning to space weather forecast, and (5) relationship between space weather and global warming. They are very important in that they can allow us to understand the physical characteristic of these events as well as to operate artificial satellites and communication systems more effectively.

**Ongoing Projects**
- High resolution observational study of solar MHD events
- Effect of solar activity on lunar orbit
- High resolution imaging spectroscopic study of solar eruptions
The World Class University (WCU) project is a higher education subsidy program of the Korean government, which invites international scholars who possess advanced research capacities to collaborate with Korean faculty members and establish new academic programs in key growth-generating fields. Focus is placed on supporting new growth-generating technologies that will spearhead national development. The ministry will give priority to inter-disciplinary studies that consolidate the fields of basic sciences and humanities & social sciences which will contribute to national, social and academic development. The School of Space Research is established at Kyung Hee University (SSR/KHU) in 2009 by this WCU project of “Space Exploration in Lunar Orbit” that was granted by the Korean Ministry of Education, Science and Technology (MEST) through the nation-wide competition and plans to train and educate the leaders in space science through competitive members and programs.

**Research Field**

<table>
<thead>
<tr>
<th>Satellite Payload</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Detector system development</td>
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<td>2. Opto-Mechnics development</td>
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<td>3. Space electronics development</td>
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<table>
<thead>
<tr>
<th>Satellite &amp; Ground-based Data Analysis</th>
<th>Details</th>
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<tbody>
<tr>
<td></td>
<td>1. Solar eruption</td>
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<tr>
<td></td>
<td>2. Connection between solar and geomagnetic storms</td>
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<td></td>
<td>3. Near-Earth space’s responses to solar disturbances</td>
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<tr>
<td></td>
<td>4. Magnetosphere-ionosphere/upper atmosphere coupling</td>
</tr>
<tr>
<td></td>
<td>5. Empirical space weather forecasting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Theory and Modeling of the Solar-terrestrial Space Environments</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1. Construction of coronal magnetic fields and modeling of solar eruptive phenomena</td>
</tr>
<tr>
<td></td>
<td>2. Generation and propagation of solar-originated high energy particles</td>
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<tr>
<td></td>
<td>3. Structures of solar plasma ejecta and their interactions with the Earth’s magnetosphere</td>
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<tr>
<td></td>
<td>4. Magnetotail dynamics and radiation particle dynamics</td>
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<td></td>
<td>5. Distribution of heavy ions in the magnetotail near the lunar orbit</td>
</tr>
<tr>
<td></td>
<td>6. Interaction of plasmas with the Moon</td>
</tr>
</tbody>
</table>

**Degree Requirements**

- At least 24 course units of graduate level credit in School of Space Research courses are required for the master’s degree, 36 course units for the doctoral degree (including units completed in the master’s courses) and 60 course units for combined master’s and doctoral degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the School of Space Research thesis committee.
- A thesis advisor can be any faculty member from the School of Space Research.
## Courses

### Fundamental Courses

<table>
<thead>
<tr>
<th>No.</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Overview of Space Sciences</td>
<td>Outline description of space science fields, encompassing history of space missions, solar physics, physics and chemistry of the solar system, space physics, space astrophysics, spacecraft engineering and remote sensing</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Space Electromagnetism</td>
<td>Basics of electric and magnetic fields in space. Electromagnetic application in space</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Introduction to Plasma Physics</td>
<td>Introductory course to plasma physics briefly dealing with single particle orbit theory, plasma kinetic theory, multi-fluid and single fluid description of plasmas, waves in diverse scales and plasma instabilities</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Introduction to Magnetohydrodynamics</td>
<td>Fluid description of space plasmas: derivation and meaning of MHD equations, MHD waves, magnetohydrostatics, MHD instabilities, MHD discontinuities, magnetic reconnection and application to space plasmas</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Introduction to Spacecraft Engineering</td>
<td>Overview of spacecraft engineering: spacecraft dynamics, rocket propulsion, spacecraft systems design, and spacecraft-environment interactions</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>Seminar in Space Sciences</td>
<td>A weekly seminar series purposed to acquaint students with current research in space sciences. Following introductory lectures by the faculty, each student gives his/her own presentation on a scientific article taken from a pool of topical papers prepared by the faculty.</td>
<td>3</td>
</tr>
</tbody>
</table>

### Advanced Courses

<table>
<thead>
<tr>
<th>No.</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Space Physics</td>
<td>Introduction to physical processes occurring in the sun, solar wind, and the magnetosphere, ionosphere and upper atmosphere of the solar system bodies. Emphasis is given to the interactions between these diverse plasma systems.</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Solar Physics</td>
<td>Overview of the physics of the Sun. The structure of the Sun, the solar atmosphere and solar activities are treated. Emphasis is given to solar eruptive phenomena exerting impacts on the Earth’s space environment.</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Magnetohydrodynamics</td>
<td>This course mostly treats the macroscopic aspects of space plasmas, encompassing the MHD equilibrium and weak equilibrium, double adiabatic theory, MHD instabilities, magnetic reconnection, magnetic helicity, dynamics of magnetic flux ropes, etc.</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Space Plasma Physics</td>
<td>This course mostly deals with the micro- and meso-scale aspects of space plasmas. Topics include the Vlasov equation, Vlasov waves, Landau damping, velocity space instabilities, mode conversion, weak turbulence theory and radiative processes.</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Numerical Simulation of Space Plasmas</td>
<td>An overview of numerical simulation methods for statics and dynamics of space plasmas. Subjects include MHD equilibrium solvers, MHD simulation techniques, multi-fluid simulation methods, fluid-particle hybrid methods and particle-in-cell methods.</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>Topics in Space Plasmas</td>
<td>This lecture course discusses topics of current interest in space plasma physics selected by the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>No.</td>
<td>Course Title</td>
<td>Course Description</td>
<td>Credits</td>
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<tr>
<td>7</td>
<td>Topics in Solar Physics</td>
<td>This lecture course discusses topics of current interest in solar physics selected by the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>Lunar and Planetary Astrophysics</td>
<td>Fundamental astrophysical theories about lunar and planetary sciences. Recent spectroscopic and photometric techniques, radiative transfer processes and chemical reactions for the investigations of planets and the Moon will be introduced.</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>Processing and Analysis of Space Science Data</td>
<td>Data processing, display and archiving; time series analysis techniques including filtering; Fourier analysis, spectral theory and power spectra.</td>
<td>3</td>
</tr>
<tr>
<td>10</td>
<td>Scientific Image Data Processing</td>
<td>This course introduces the techniques of scientific image data reduction and provides students with a practical training with available satellite data.</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>Practicum of Space Mission Analysis</td>
<td>Design practice for a hypothetical satellite system starting from a mission statement. A team effort will be made to develop systems requirements documents, to define the overall architecture of a spacecraft, and to perform the system/subsystem integration tasks leading up to a preliminary design review.</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>Space Instrumentation</td>
<td>General overview of in situ and remote observations in space; systems approach to instrument design; sensors - particle and photon detectors, and magnetometers; plasma measurements</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>Detector Test and Calibration</td>
<td>Lab test and calibration of detectors; detector system optimization.</td>
<td>3</td>
</tr>
<tr>
<td>14</td>
<td>Advanced Spacecraft Technology</td>
<td>Discussion of special topics in space technology selected by the instructor.</td>
<td>3</td>
</tr>
<tr>
<td>15</td>
<td>Research in Space Physics I</td>
<td></td>
<td>3</td>
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<tr>
<td>16</td>
<td>Research in Space Physics II</td>
<td></td>
<td>3</td>
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<tr>
<td>17</td>
<td>Research in Space Physics III</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>18</td>
<td>Research in Solar Physics I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>19</td>
<td>Research in Solar Physics II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>20</td>
<td>Research in Space Experiments I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>Research in Space Experiments II</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td>Research in Space Experiments III</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty
Kap-Sung Kim, Ph.D. Kyoto University, 1988, Professor, Solar Physics, Celestial Mechanics, kskim@khu.ac.kr
Khan-Hyun Kim, Ph.D. Nagoya University, 1999, Associate Professor, Space Physics, khan@khu.ac.kr
Sang-Joon Kim, Ph.D. New York State University, 1982, Professor, Solar System Astronomy, IR Observation, sjkiml@khu.ac.kr
Sung-Soo S. Kim, Ph.D. University of California Los Angeles, 2000, Assistant Professor, Hydrodynamic Simulations, Inner Galactic Bulge, sungsoo.kim@khu.ac.kr
Yong-Jae Moon, Ph.D. Seoul National University, 1999, Associate Professor, Solar Physics, Space Weather, moonyj@khu.ac.kr
Soo-Jong Pak, Ph.D. University of Texas at Austin, 1997, Associate Professor, Infrared Instrumentation, Star Formation, soojong@khu.ac.kr
Jong-Ho Seon, Ph.D. University of Iowa, 1996, Associate Professor, Experimental Space Plasma, jhseon@khu.ac.kr
Dong-Hun Lee, Ph.D. University of Minnesota, 1990, Professor, Space Physics, dhlee@khu.ac.kr
En-Sang Lee, Ph.D. KAIST, 2001, Assistant Professor, Space Physics, eslee@khu.ac.kr
Min-Hwan Jang, Ph.D. Georgia State University, 1995, Professor, Astronomy, Variable Star, mjjang@khu.ac.kr
Ho Jin, Ph.D. Kyung Hee University, 2004, Assistant professor, Space Payload, benho@khu.ac.kr
Gwang-Son Choe, Ph.D. University of Alaska Fairbanks, 1995, Associate Professor, Solar Physics, gchoe@khu.ac.kr
Robert P. Lin, Ph.D. University of California, Berkeley, 1967, Chair Professor, Experimental Space Physics, rlin@ssl.berkeley.edu
Sami K. Solanki, Ph.D. Swiss Federal Institute of Technology, 1987, Distinguished Professor, Heliospheric Physics, solanki@mps.mpg.de
Danny Summers, Ph.D. University of London, 1970, Professor, Space Plasma, dsummers@mun.ca
Peter H. Yoon, Ph.D. Massachusetts Institute of Technology, 1987, Professor, Space Plasma, yoonp@umd.edu
Tetsuya Magara, Ph.D. Kyoto University, 1998, Associate Professor, Plasma Physics, magara@khu.ac.kr
Danniel T. Jaffe, Ph.D. Harvard University, 1981, Professor, IR Astronomy, dtj@astro.as.utexas.edu
Chio Zong Cheng, Ph.D. University of Iowa 1975, Professor, Space Plasma Physics, frankcheng@pssc.ncku.edu.tw

Department of Plant Molecular Systems Biotechnology aims to understand plant as a system consisting of a large amount of genes, transcripts, proteins and metabolites and to explore agriculturally and economically valuable traits or physiological characters for future applications. We are going to focus on systemic biological approaches in crop plants, especially rice plant as a model crop having increasing significance in economy and human welfare. Our department has four major areas: functional genomics, biochemistry, proteomics/metabolomics, systems biology.

Department of Plant Molecular Systems Biotechnology was inaugurated on March 1, 2010. As of now, the department has 5 master course and 1 Doctor of Philosophy (Ph.D.) course graduate students. There are four faculty members in the department: Professor Gyn-Heung An has research topics such as developing C4 rice, developing functional foods enriched in micronutrient, control of flowering time, male organ development, phenomics of major gene family as a world-leading scientist at the functional genomics in rice and a chair of the department; Professor Jong-Seong Jeon`s specialty is rice carbon/nitrogen metabolomics, developing functional foods altered in primary metabolites and fungal disease resistance; Professor Sang-Won Lee`s specialty is biochemistry, proteomics, and bacterial disease resistance; Professor Ki-Hong Jung`s specialty is integrating omics, systems biology, photosynthesis and male organ development.

Courses

<table>
<thead>
<tr>
<th>Research Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Functional Genomics</td>
<td>A field of molecular biology in plant that attempts to make use of the vast wealth of data produced by genomic projects (such as genome sequencing projects) to describe gene (and protein) functions and interactions</td>
</tr>
<tr>
<td>Plant Genetics</td>
<td>A study of plant genes, and tries to explain what they are and how they work.</td>
</tr>
<tr>
<td>Plant Proteomics</td>
<td>A large-scale study of plant proteins, particularly their structures and functions</td>
</tr>
</tbody>
</table>
Master’s and doctoral courses in KHU were offered in 1972 and 1973, respectively. In these courses, the major objectives are to produce skilled professional engineers with practical skills in their major field, and to provide innovative courses for success in the highly industrialized society. Our studies can be divided in two parts: one is Heat & Fluid, and the other is Materials & Applied Mechanics which includes automatic control and numerical system analysis. The Department also has twelve laboratories for engineering research.
Degree Requirements

- At least 24 course units of graduate level credit in Mechanical Engineering courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Student must fulfill presentation, defense and document requirements for the Mechanical Engineering thesis committee.
- A thesis advisor can be any faculty member from the Mechanical Engineering department.

Courses


Faculty

- Kyung-Suk Park, Ph.D. Inha University, 1980, Professor, Thermal Engineering, ks2507@hanmail.net
- Young-Nam Paik, Ph.D. Hanyang University, 1983, Professor, Material Engineering, ynpaik@khu.ac.kr
- Taik-Yul Oh, Ph.D. Korea University, 1985, Professor, Applied Mechanics (Structure and Fracture), tyoh@khu.ac.kr
- Hwan-Sup Oh, Ph.D. Kyunghee University, 1985, Professor, Applied Mechanics (Fatigue and Fracture), shoh@khu.ac.kr
- Kyung-Hoon Kim, Ph.D. Hongik University, 1985, Professor, Heat and Fluid Engineering, kimkh@khu.ac.kr
- You Huh, Ph.D. Stuttgurt University, 1988, Professor, Process Engineering, huhyou@khu.ac.kr
- Young-Ha Kwon, Ph.D. University of Illinois at Chicago, 1987, Professor, Engineering Mechanics, yhkwon@khu.ac.kr
- Chang-Nyung Kim, Ph.D. University of California, Los Angeles, 1989, Professor, Heat and Fluid Engineering, cnkim@khu.ac.kr
- Song-Min Yoo, Ph.D. UC Berkeley, 1990, Professor, Manufacturing Engineering, smyoo@khu.ac.kr
- Myung-Jin Choi, Ph.D. North Carolina State University, 1992, Professor, Kinetics & Vibration, mjchoi@khu.ac.kr
- Hung-Shin Jeon, Ph.D. Tohoku University Japan, 1988, Professor, Combustion Engineering, hsjeon@khu.ac.kr
- Seung-Ho Jang, Ph.D. University of Tokyo, 1991, Professor, Mechanical Engineering, shjang@khu.ac.kr
- Hi-Ki Hong, Ph.D. Tokyo Institute of Technology, 1993, Professor, Heat Transfer, hhong@khu.ac.kr
- Soon-Geol Lee, Ph.D. University of Michigan, 1993, Professor, Robotics & Control, sglee@khu.ac.kr
- Kyong-Yop Rhee, Ph.D. Georgia Institute of Tech, 1991, Professor, Nanocomposite Materials, rheeky@khu.ac.kr
- Jin-Hwan Choi, Ph.D. University of Illinois at Chicago, 1996, Professor, Multibody Dynamics, jhchoi@khu.ac.kr
- Yong-Tae Kang, Ph.D. Ohio State University, 1994, Professor, Energy & Material Circulation, ytang@khu.ac.kr
- Yoon-Hyuk Kim, Ph.D. KAIST, 2000, Associate Professor, Biomedical Engineering, yohnkim@khu.ac.kr
- Sung-Soo Rhim, Ph.D. Georgia Institute of Technology, 2000, Associate Professor, System Dynamics & Control, ssrim@khu.ac.kr
- June-Mo Koo, Ph.D. North Carolina State University, Assistant Professor, Computational Particle and Fluid Dynamics, jmkoo@khu.ac.kr
- Byeong-Chan Lee, Ph.D. Mechanical Engineering, Stanford University, 2005, Assistant Professor, Materials Theory and Technologies, airbc@khu.ac.kr
- Won-Gu Lee, Ph.D. Seoul National University, 2007, Assistant Professor, Optofluidic Nanobio Engineering, termylee@khu.ac.kr
- Duk-Hyun Choi, Ph.D. Postech, 2006, Assistant Professor, Nanostructures and Nanomaterials, dchoi@khu.ac.kr

Laboratories

- Thermal Engineering Lab
  - URL: http://web.khu.ac.kr/~ksplab
Director: Professor, Kyung-Suk Park (ks2507@hanmail.net)

Research Overview
The main goal of this laboratory is to maximize the use of thermal energy. Major research fields are Thermal Engineering, Combustion Engineering, Atomizing & Spray and Energy & Emission.

Ongoing Projects
- Effects of cooling conditions on the performance of 4 cylinder S.I engines
- Analysis of cycle on the optimized cooling S.I engines
- A study on the combustion simulation for an automotive engine
- Effects of spray characteristics on the engine performance
- A study on the supply system of the gas engine

Advanced Materials Research Laboratory (APRL)
URL: http://web.kyunghee.ac.kr/~nanocomp
Director: Professor, Young-Nam Paik (ynpaik@khu.ac.kr)
Associate Professor, Kyong-Yop Rhee (rheeky@khu.ac.kr)

Research Overview
The aim of the Advanced Materials Research Laboratory (APRL) at Kyung Hee University is to perform research on processing techniques and material characterization of advanced materials (nanostructured materials and composite materials). APRL also performs research on surface treatments (plasma, ion beam) of various materials (metal, polymer, ceramic).

Ongoing Projects
- Material characterization of nanopowder fabricated by nano-milling process
- Investigation of strain-rate effect on the compressive properties of graphite/epoxy composites in a deep-sea environment
- Surface treatment of metal and PMC to improve bonding characteristics of metal/PMC joint

Applied Mechanics Laboratory
URL: http://web.khu.ac.kr/~appmech
Director: Professor, Taik-Yul Oh (tyoh@khu.ac.kr)

Research Overview
The Applied Mechanics Laboratory was established in 1980. We mainly study two fields that research mechanical properties using the fatigue & fracture test and analysis of finite element method and the research of 3D modeling and analysis of finite element method of bone.

Ongoing Projects
- The study of fatigue & fracture properties with dissimilar laser welded sheet metal
- Determination of design standard for hydrodynamic & wind pressure of liquid-storage tanks

Strength & Fracture Material Laboratory
URL: http://web.khu.ac.kr/~fracture
Director: Professor, Hwan-Sup Oh (shoh@khu.ac.kr)

Research Overview
The primary tasks of the Material Strength Research Laboratory are to conduct study on fracture and fatigue. The importance of this research field is increasing due to the development and complication of mechanical structures. Our laboratory is performing analyses of fracture, fatigue and structural systems using BEM and FEM.

Ongoing Projects
- Life evaluation of vehicle type bulb considering heat fatigue character
- Structural and thermal analysis of Lyman-a Imaging Solar Telescope loaded in Science Satellite-II
- The structure strength analysis of target used for production of the radiation isotope

Fluid Engineering Laboratory
Director: Professor, Kyung-Hoon Kim (kimkh@khu.ac.kr)

Research Overview
Our research at the Fluid Energy Engineering Laboratory at Kyung Hee University focuses on the study of fluid mechanics and experimental techniques, especially in the areas of multi-phase flows, particle/turbulence interaction,
and turbulent mixing in complex geometries. Our research also includes applying Particle Image Velocimetry (PIV) to the suspension of sediment in turbulent channel flows, an entrainment by plunging liquid jets, fundamental dynamics of spray cooling for electronic application, and the effects of turbulent mixing on safety issues within pressurized Water Reactors of nuclear power plants.

**Ongoing Projects**
- Interaction effects of vortex with a free surface on mass transport process through the surface
- Development of material handling technology for application improvement of road cleaning vehicle "MoGreen"
- Kyung Hee on-line campus lecture contents "Fluid Power system"
- A study on the fluid mixing analysis for proving shell wall thinning of a feed-water heater

**Laboratory of Computational Fluid Dynamics and Bio-Mems**
Director: Professor, Chang-Nyung Kim (cnkim@khu.ac.kr)

**Research Overview**
Research activity in the Laboratory of Fluid Dynamics and Bio-Mems includes numerical and experimental studies on meso and micro scaled fluid flow and thermal phenomena. This laboratory is equipped with high level experimental facilities and state-of-the-art computational software.

**Ongoing Projects**
- Performances of micropumps used in bio-medical science
- Design of mechanical heart valves
- Characteristics of VOCs (Volatile Organic Compounds) abatement in an indoor environment

**Precision Engineering Laboratory**
Director: Professor, Song-Min Yoo (smyoo@khu.ac.kr)

**Research Overview**
Our research at the Precision Engineering Laboratory at Kyung Hee University focuses on the study on Precision Machining, Measurement and Intelligent Transportation System (ITS). Precision engineering is the key technology toward next generation production system. ITS is also a merging technique solving the current traffic problems in the aspect of the vehicular system and infrastructure for transportation.

**Ongoing Projects**
- Precision machining process modeling
- Signal processing with neural network
- Flexible disk grinding process
- Linear motor feed system analysis and estimation

**Energy Laboratory**
Director: Professor, Hung-Shin Jeon (hsjeon@khu.ac.kr)

**Research Overview**
The activities of our laboratory are focused on the research of combustion of internal combustion engines, gas turbine, aeronautics, rockets and external combustion engines.
Through our experimental and computational study, we expect to apply the design of next generation engines for energy conservation and the environment.

**Ongoing Projects**
- Temperature measurement of combustion gas by ultrasonic
- Supercritical liquid fuel combustion
- Development of non-dimensional parameters on the liquid atomization

**Laboratory of Thermal Environmental Control**
Director: Associate Professor, Hi-Ki Hong (hhong@khu.ac.kr)

**Research Overview**
The mission of the laboratory of thermal environmental control is to advance the science of providing controlled environments to ensure the health and comfort of people and to facilitate the production and storage of goods.
We promote advances in heating, ventilating, air-conditioning, and refrigeration technology through developments, and improvements that increase the efficiency of HVAC systems.
We evaluate HVAC technologies from a societal as well as a commercial viewpoint.
We also translate research results into practice through technical assistance to industry and transfer knowledge to a broad audience through publications, presentations, and seminars.

**Topic**
- HVAC system simulation & experiment
- Thermal storage system
- Solar thermal energy system
- Measurement of thermal properties
- Exergo-Economic & Life-Cycle cost analysis

**Ongoing Projects**
- A study on practical solar system using a DTMF (Dual Tone Multi Frequency) remote control and a regenerative panel
- Thermal environmental valuation and set a standard for design of System Multi air-conditioning
- Energy transportation/conversion technology using a binary mixture at ambient temperature
- Economical efficiency and propriety analysis of ice slurry based district cooling system

**Automatic Control Laboratory**
Director: Associate Professor, Soon-Geol Lee (sglee@khu.ac.kr)
Associate Professor, Sung-Soo Rhim (ssrhim@khu.ac.kr)

**Research Overview**
The mission of the laboratory is to develop novel and useful control systems by studying and applying the theory of robotics and mechatronics.

**Ongoing Projects**
- Electro-acupuncture stimulator with needle-twirling
- The standardization of autonomous robot
- The development of a motor-driven flap-door system
- DTMF (Dual Tone Multi Frequency)
- Development of an automated rice washer
- A smarter micro mouse as an education tool
- Development of an intelligent Home Service Robot

**Virtual Prototyping Laboratory**
Director: Assistant Professor, Jin-Hwan Choi (jhchoi@khu.ac.kr)

**Research Overview**
Recently, due to the rapid developments of computer technologies, the virtual design technologies based on the computer simulation have been widely used in mechanical engineering. The research of VPL (Virtual Prototyping Laboratory) is focused on the system modeling and design of the mechanical products, such as automobiles & parts, electro-mechatronics, machineries and robots based on the CAD/CAE technologies. The specialties in research of VPL are multibody dynamics, vehicle dynamics, media transport systems, especially contact problems and co-simulations with controllers.

**Ongoing Projects**
- Research for large scale slit-die design technology
- Development of virtual test skill for self robot system
- Development of self learning manipulation
- Missile launching mechanism design

**Energy/Mass Circulation Laboratory**
Director: Assistant Professor, Yong-Tae Kang (ytkang@khu.ac.kr)

**Research Overview**
The research topics of the Energy/Mass Circulation Laboratory are to apply the Advanced Energy System to the real world, to develop the Environmental Friendly Air-Conditioning and Refrigeration System, to design the effective heat exchangers and to study the heat and mass transfer and circulation mechanisms by numerical analysis and simulation of transport phenomena and experimental studies. In addition, the absorption refrigeration system and boiling and condensation applications, cycle and component analysis are studied.
Ongoing Projects

- Visualization of marangoni convection enhancement in a binary nanofluid using Neutron radiography technique (Supported by Korea Institute of Science and Technology Evaluation and Planning)
- Development of solution transportation absorption system (STA) by binary mixture (Supported by Korea Science and Engineering Foundation)
- Heat and mass transfer enhancement by surfactant during NH3/H2O bubble absorption (Supported by Korea Research Foundation)
- Design of high efficiency evaporator/condenser for heat pump system (Supported by Korea Institute of Science and Technology Evaluation and Planning)
- Development of high effective solution and refrigerant heat exchanger (Supported by LG cable)

Advanced Material Process Engineering Laboratory (AMPE Lab)
URL: http://gaya.khu.ac.kr/ampelab
Director: Professor, You Huh (huhyou@khu.ac.kr)

Research Overview

The AMPE Laboratory consists of two main research areas: Process Control Engineering and Advanced Materials Processing Technology. Research on process control engineering deal with process dynamics, especially, targeting on modeling, analysis and control of randomness of product qualities that occur during processing advanced materials while applying new technologies. The materials dealt with are specified with the shape, ranging from micro/nano-fibers to fiber bundles that have high performance and multi-functions for various application fields as innovative textiles, information and communication, filtering, bio-medicals, and robotics.

Ongoing Projects

- Analyzing the mechanism of stop mark and controlling the weft density in high performance shuttleless loom (KOTMI)
- The limit of the random variation in the bundle thickness based on the fiber fluidity (KRF)
- Application of the bundle flow dynamics on a realization of random variations in bundle (KOSEF)

System Design and Robotics Laboratory (SDRL)
URL: http://web.khu.ac.kr/~ampe
Director: Professor, Seung-Ho Jang (shjang@khu.ac.kr)

Research Overview

Welcome to the System Design and Robotics Laboratory (SDRL) at Kyung Hee University. We are an interdisciplinary group of researchers interested in robotics. We use a variety of methods to look for the general principles in robotics. The goals of our research are to develop robots useful to mankind, and enhance human-robot interactions in virtual reality and tele-operating systems.

- Studies on Intelligent CAD System for R&D
- Development of Controller for Active Magnetic Bearing
- Application of the Annealing Method to the Three Dimensional Layout Design

Ongoing Projects

- Development of smart robot hand
- Development of non-contact type tension detector using photo interrupter
- Development of rotating ring in the spinning process using air bearing
- Dynamic characteristics of annular plates and rings of radially varying thickness

Human Sensibility Ergonomics Laboratory (HS Lab)
URL: http://web.khu.ac.kr/~hslab
Director: Professor, Young-Ha Kwon (yhkwon@khu.ac.kr)

Research Overview

Biomimetics refers to human-made processes, substances, devices, or systems that imitate nature. The art and science of designing and building biomimetic apparatus is called biomimetics, and is of special interest to researchers in nanotechnology, robotics, artificial intelligence (AI), the medical industry, and the military.

Our laboratory has been conducting research on the design of machine multi-sensory systems, measurement of
biometrics and analysis of human sensibility.

Ongoing Projects
- Design and analysis of tactile sensor by using FEM (Korea Institute of Industrial Technology Evaluation and Planning)

Virtual Biomechanical Engineering Laboratory
URL: http://web.khu.ac.kr/~vbeslab/
Director: Professor, Yoon-Hyuk Kim (yoonhkim@khu.ac.kr)
Research Overview
The main research of the Virtual Biomechanical Engineering Laboratory (VBEL) includes virtual human musculoskeletal modeling, computer applied biomechanical analysis, pre-operative planning and simulation, development of surgery robots and knowledge based clinical information of the human.

Ongoing Projects
- Clinical evaluation of the spine surgery robot
- Development of intelligent assistant system for knee surgery
- Numerical analysis of trunk muscle coordination for spinal stability

Computational Particle and Fluid Dynamics Laboratory
URL: http://163.180.121.154/CPFD/Introduction.html
Director: Professor, June-Mo Koo (jmkoo@khu.ac.kr)
Research Overview
In our laboratory, Research the liquid containing fine particles (suspension), gas (aerosol) flow is related to industrial applications.

Ongoing Projects
- Development and improvement of thermophysical determination
- Research of the effective thermal conductivity improved mechanism
- Research of removing nano particle technology in industrial waste gas
- Optimization of particles coating with aerosol evaporated lead flow control

Materials Theory and Technologies laboratory
URL: http://mtt.khu.ac.kr/
Director: Professor, Byeong-Chan Lee
Research Overview
The central idea of my research interest is to cross-train, and hence, bridge multiple length scales. On the one hand, macroscopic phenomena can be understood with the underlying microscopic physics using the state-of-the-art techniques such as first principles density functional theory. On the other hand, nanoscale phenomena could be understood in terms of well-established theories such as continuum mechanics. With a deeper understanding of these two information flows, better materials modeling methodology, in the context of multiscale modeling, can be achieved and applied to the real-world applications, in which the governing physics is inherently multiscale.

Ongoing Projects
- Nanomechanics
- Surface physics
- Multiscale modeling

Optofluidic Nanobio Engineering Laboratory
URL: http://one.khu.ac.kr/
Director: Professor, Won-Gu Lee (termylee@khu.ac.kr)
Research Overview
Optofluidic Nanobio Engineering (ONE) Laboratory is open for prospective students who want to learn more about various interdisciplinary approaches between medical and engineering fields. Our research interests are to develop novel enabling technology platforms for diagnostics, therapeutics, and future medicine in view of mechanical engineering. Our lab will aim to provide students with a creative hint to enhance conventional nano-bio fusion technologies, so that it can enhance interdisciplinary studies between engineering and biology. Our lab has been looking for excellent candidates who could be frontier researchers in this field.
Ongoing Projects
- Microfluidics for diagnosis of blood-related diseases: Cardiovascular diseases, cancer, and HIV
- Microscale electroporation for clinical applications: Gene and cell therapeutics
- Microfluidics for screening stem cell microenvironments: Regenerative medicine

Nanostructures and Nanomaterials Laboratory
URL: http://dchoi.khu.ac.kr/
Director: Professor, Duk-Hyun Choi (dchoi@khu.ac.kr)

Research Overview
Our group has an interest to the fabrication and a variety of applications of nanostructures and nanomaterials. We focus on the novel design and the development of hybrid nanocomposite structures for various energy, electronic, and biological devices.

Ongoing Projects
- Nanopiezotronics - Human-powered energy harvesting system - Photovoltaics
- Touch sensors - Flexible transparent electronics - Thin-film encapsulations
- Nanoplasmonics - Subwavelength optics - Surface-enhanced Raman scattering (SERS)
- Tip-enhanced Raman scattering (TERS) - Plasmonic nanostructures
- Multiplex sensing systems for biology and environment - Molecular imaging
- Nanofabrications - Metamaterials - Nano/biomechanics - Nanotribology

Graduate School

Department of Chemical Engineering
Tel: +82 31 201 2529 Fax: +82 31 204 8114 E-mail: kimyc@khu.ac.kr URL: http://chemeng.khu.ac.kr

Chemical Engineering has an illustrious history in the development of the national economy, contributing significantly to the modernization of Korea. In the department, research has been performed in the areas of expanding to energy, advanced materials and biochemical engineering related industries on the basis of traditional petrochemical and fine chemical industries. We are a diverse department with 13 faculty members, 37 Master’s students and 13 Ph.D. students. Our department continually updates its curriculum to stay in the forefront of the field. Chemical Engineering is an exciting, challenging and growing profession, operating at the leading edge of technology. Because Chemical Engineering is an integral discipline grafting engineering concepts onto the basic principles of the existing disciplines of chemistry, physics, mathematics, and biology, it is widely regarded as the central engineering discipline.

Degree Requirements
- At least 24 units of graduate level credit in Chemical Engineering courses are required for the master’s degree, and 60 units for the doctoral degree including units completed in the master’s courses.
- Students must pass a qualifying examination.
- Students must complete all requirements, such as publication, presentation, and dissertation, as determined by the thesis committee.
- Students should work with a faculty member in the department as advisor.
Courses

Faculty
Suk-Jin Choung, Ph.D. State University of New York, Buffalo, 1982, Professor, Chemical Engineering, sjchoung@khu.ac.kr
Chang-Ho Park, Ph.D. Purdue University, 1989, Professor, Biochemical Engineering, chpark@khu.ac.kr
Yong-Taek Lee, Doctor of Engineering University of Tokyo, 1988, Professor, Synthetic Chemistry, yonglee@khu.ac.kr
Sung-Soo Kim, Ph.D. University of Texas at Austin, 1990, Professor, Chemical Engineering, sungkim@khu.ac.kr
Bom-Sook Lee, Ph.D. Purdue University, 1992, Professor, Process System, blee@khu.ac.kr
Sung-Hun Ryu, Ph.D. Stevens Institute of Technology, 1991, Professor, Polymer Processing and Nanocomposite, shryu@khu.ac.kr
Ki-Gook Song, Ph.D. University of Michigan, 1988, Professor, Polymer Physics, ksong@khu.ac.kr
Woo-Sik Kim, Ph.D. Pennsylvania State University, 1992, Professor, Materials Crystallization, wskim@khu.ac.kr
Jin-Soo Kim, Ph.D. University of Cincinnati, 1999, Associate Professor, Chemical Engineering, jkjin@khu.ac.kr
Sang-Hyon Paek, Ph.D., Seoul National University, 1995, Professor, Chemical Engineering, shpaek@khu.ac.kr
Young-Chul Kim, Ph.D. KAIST, 1991, Professor, Organic/Polymer Electronic & Display Materials, kkim@khu.ac.kr
Ki-Gook Song, Ph.D. University of Michigan, 1988, Professor, Polymer Physics, ksong@khu.ac.kr

Laboratories
- Microsurface and Catalysis Laboratory
  URL: http://web.khu.ac.kr/~catalyst/
  Director: Professor, Suk-Jin Choung (sjchoung@khu.ac.kr)
  Research Overview
  Research at the Microsurface & Catalysis Laboratory at Kyung Hee University focuses on the development of new technologies for clean energy and for encountering the global energy and environmental crises of the future. The research includes photo-catalytic reaction, CO2 Hydrogenation, diesel reforming, and selective catalytic reduction of NOx. Through our research, the ultimate goal is to create new clean energy and to protect the environment.
  Ongoing Projects
  - CO2 Hydrogenation catalyst developments for the removal of CO2 from the industrial boiler systems
  - Diesel reforming to produce H2 as a new energy source
  - Photo-catalytic reaction/plasma reaction for removing volatile organic compounds (VOCs) from various industrial sources
  - SCR (Selective catalytic reduction) of NOx for the cleaning of flue gases from industries

- Medicine & Biochemical Laboratory
  Director: Professor, Chang-Ho Park (chpark@khu.ac.kr)
  Research Overview
  Biotechnology is the foundation of our research. We research microorganisms which are able to remove VOCs (Volatile Organic Compounds) which are the cause of stomach cancer. We identify a bacterial strain isolated from a biofilter and medicinal plants having the antimicrobial activity against Helicobacter pylori.
Ongoing Projects
- Biofiltration of Volatile Organic Compounds (VOCs)
- The effect on the growth while cultivation of Helicobacter pylori

**Specialty Materials Laboratory**
Director: Professor, Yong-Taek Lee (yongtlee@khu.ac.kr)
Research Overview
We research the control of water and the concentration of aroma by membranes, the development of membrane materials and high performance RO membrane for desalination. Also we research the development of the electrodeless UV lamp and system.

Ongoing Projects
- The development of high performance RO membrane for desalination
- The development of membrane humidifier for the Fuel cell
- Preparation of a nanoporous ceramic membrane by counter diffusion CVD method
- A study on purification and concentration of biobutanol by membrane

**Polymeric Materials Laboratory**
URL: http://gaya.khu.ac.kr/poly
Director: Professor, Sung-Soo Kim (sungkim@khu.ac.kr)
Research Overview
Preparation of polymeric membranes with targeted properties to meet industrial demands and to modify the surface of the membranes to improve transportation properties. Synthesis and characterization of polymeric membranes for medical applications and development of profitable polymeric filtration systems. Synthesis and modification of advanced polymeric composite nanoparticles for use in information display technology of semiconductor industry.

Ongoing Projects
- Preparation of micro-porous PVDF membrane via thermally-induced phase separation
- Preparation of organic-inorganic composite particles for diffuser plate
- Preparation of impact resistance PMMA sheet for flexible display

**Process System Laboratory**
URL: http://web.khu.ac.kr/~psel
Director: Professor, Bom-Sock Lee (bslee@khu.ac.kr)
Research Overview
The purpose of our research is process modeling and finding its optimum operating condition and practical applications. Also the advanced control method is applied to the process to maintain the optimal operation condition. Our research areas include Process Systems Engineering, Process Simulation, Batch Process Design, Scheduling & Analysis, and Process Optimization.

Ongoing Projects
- On-line quality prediction system
- Development of the chemical product laboratory using a machine studying technique

**Organic Nanocomposites Laboratory**
Director: Professor, Sung-Hoon Ryu (shryu@khu.ac.kr)
Research Overview
We research plastics which have been indispensable to our lives and try to make them lucrative, highly functional, and nature-friendly. Also, we research organic nanocomposites and polymer surface modifications with the purpose of improving material physical-chemical property and functionalization.

Ongoing Projects
- Research on Bipolar plate material characterization for PEMFC
- Research on MMT/Epoxy nanocomposites
- Research on dispersion of functionalized CNT

**Polymer Physics Laboratory**
URL: http://web.khu.ac.kr/~polymer/
Director: Professor, Ki-Gook Song (ksong@khu.ac.kr)
Research Overview
The Polymer Physics Lab researches the wide-band reflective polarizer from variable pitch cholesteric liquid crystal, liquid crystal alignment on photoreactive polymer alignment layer for LCD applications, molecular structure of polyolefin using vibrational spectroscopy, optical communication polymer device for optical fiber, formation mechanism and mechanical properties of nanocomposites.

Ongoing Projects
- A study of polyolefin morphology with vibrational spectroscopy
- A study of photochromic self-assembly monolayer
- A study of wide-band reflective polarizer from photocrosslinkable liquid crystal
- FT-Raman spectroscopy
- A studies of barrier thin file with nanocomposite

Materials Crystallization Laboratory
Director: Professor, Woo-Sik Kim (wskim@khu.ac.kr)
Research Overview
Research at the Materials Crystallization Laboratory focuses mainly on the design of nano-crystal structure and development of crystallization technology to synthesis the high functional nanomaterials and to separate the chiral isomers.

Ongoing Projects
- Novel separation of bioactive substances from natural resources
- Control of crystal defect and structure of ε-HNIW on recrystallization process
- Separation of the chiral isomer
- Design of core-shell nanoparticles
- Production of large size sphere particles for LCD spacer

Materials & Laboratory for Electronics and Displays
Director: Associate Professor, Sang-Hyon Paek (shpaek@khu.ac.kr)
Research Overview
We research materials - polyimides which are applied to electronics and displays such as the semi-conductor, LCD, polymer alignment layer induced by photo irradiation and compensation film applied to conductivity adhesive, TFT-LCD.
Also we research the mutual relation between the structures and characteristics - including the electro-optical property - of those materials.

Ongoing Projects
- A study of the stability and mechanism for alignment of liquid crystal on rubbed polymer film and LCD
- Development of compensation film for improving wide viewing angle on LCD
- A study of characteristics for polyimide alignment layer and alignment of liquid crystal

Laboratory for Organic Opto-Electronic Materials
Director: Professor, Young-Chul Kim (kimyc@khu.ac.kr)
Research Overview
Researches of this lab are mainly focused on the novel organic and/or polymeric materials for electronics and information display applications. Electronic, optical, electro-optic, and opto-electronic properties as well as other fundamental properties of new materials are characterized and modified to design the display and electronic devices with improve performance. Nano engineering of materials and device structure, and device performance optimization are carried out. Flexible displays such as OLED, e-Paper, and LCD are among the target applications of current researches.

Ongoing Projects
- New materials and device structure optimization for high performance OLEDs
- Materials and device structure design for flexible OLED and e-Paper
- New devices using conducting polymer nanocomposites with CNT and graphene

Nanomaterials Laboratory
URL: http://web.khu.ac.kr/~nano
Director: Associate Professor, Jin-Soo Kim (jkim21@khu.ac.kr)

Research Overview
Our research at the Nanomaterials Laboratory at Kyung Hee University focuses on advanced inorganic materials. In particular, it focuses on fabrication and characterization of ceramic nanoparticles, nanostructured materials and nanoporous membranes for use in separation, reaction, and environmental applications. We conduct interdisciplinary research featuring a combination of chemical engineering, chemistry and materials science.

Ongoing Projects
- Ceramic nanoparticles for SOFC applications
- Conductive coating materials for display devices
- Functional nanoporous ceramic membranes

Nano Bioengineering Laboratory
Director: Associate Professor, Eun-Yeol Lee (eunylee@khu.ac.kr)

Research Overview
Our lab focus on the research and development of chiral biocatalysis, functional biomaterials and bioenergy using BioInformatics assisted Genetic Engineering and Nanobioprocessing tools (InfoGEN). New biocatalysts can be discovered by in silico systematic mining of genome data and analyzing putative enzyme sequence and activity information. We are mining various bioresources and databases for the discovery of novel enzymes for chiral synthesis and bionergy (biodiesel etc.). We are interested in developing nanobio-system for biomolecular recognition and diagnostics.

Ongoing Projects
- Bioinformatics-inspired protein engineering and nanobiocatalysis
- Asymmetric/enantioselective biotransformations for production of chiral compounds
- Biocatalytic production of bioenergy
- Development of nanobiomaterials/systems for molecular recognition

Electrochemical Energy Storage & Conversion Laboratory
Director: Assistant Professor, Chang-Woo Lee (cwlee@khu.ac.kr)

Research Overview
The research area of our laboratory is mainly focused on materials synthesis, electrochemical and thermal characterization, and reaction mechanism diagnosis in the field of energy storage and conversion based on electrochemistry. Energy systems such as Li-ion rechargeable batteries, H₂ or Zn Fuel cells, solar cells are in great interests to us. These energy systems are eventually attempted to apply for the portable electronics and vehicles power sources as a sole or hybrid energy conception.

Ongoing Projects
- Thermal & electrochemical failure mechanism investigation of nano-scaled Mn-rich cathode materials for PHEV applications
- Studies on suppression of dendrite growth & hydrogen overpotential for the Zn-based energy storage device
- Electrochemical & morphological characterization of the electrodeposited silicon wafers for solar cells

Self Assembled Nanomaterials Laboratory (SANL)

Director: Full-Time Lecturer, Ho-Seok Park (phs0727@khu.ac.kr)

Research Overview
Our research goal is to provide innovative chemical strategies for the design, synthesis, and assembly of functional nanomaterials through emergent bottom-up approaches, as well as to understand nanoscale phenomena occurring on electrochemical and electronic systems for practical energy and biosensor applications. Inspired by materials science, supramolecular and physical chemistries, and electrochemistry, we are pursuing these missions in a multidisciplinary and creative manner.

Ongoing Projects
- Advanced carbon nanomaterials (CNT, Graphene, Conducting Polymer) for energy conversion and storage devices
- Synthesis and functionalization of inorganic nanocrystals and carbon nanomaterials through ionic liquid-based
green nanotechnology
- Electrochemical biosensor platforms for microfluidic and flexible systems
- Functional materials for CO2 capture and storage

Graduate School

Department of Advanced Polymer and Fiber Materials

Tel: +82 31 201 2518  Fax: +82 31 204 8114  E-mail: kjkim@khu.ac.kr  URL: http://amie.khu.ac.kr

Advanced Polymer and Fiber Materials major is concerned with polymeric materials and fibers produced from them. Our goal is to offer a graduate program based on skill and experience to raise the students’ capability to solve urgent problems in nanotechnology (NT), biotechnology (BT), environmental technology (ET), and information technology (IT). Our department includes biomaterial, nanomaterial, computational interface and electronics in the educational process. This broad field of study permits a wide range of useful concentrations. Students with the MS degree or Ph.D. degree from our department specialize in the areas of polymer synthesis and characterization, structure-property relationships of polymers and fibers, and advanced materials applications.

Degree Requirements
- At least 24 course units of graduate level credit in Advanced Polymer and Fiber Materials courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a series of written qualifying examinations.
- Students must fulfill the requirements of oral defense for a research proposal and their dissertation based on original research.
- A thesis advisor can be any faculty member from the Chemistry department.

Courses

Faculty
Kap-Jin Kim, Ph.D. Seoul National University, 1985, Professor, Polymer Material Science, kjkim@khu.ac.kr
Joon-Youl Lee, Ph.D. Pennsylvania State University, 1988, Professor, Polymer Science, jylee@khu.ac.kr
Jae-Hyung Park, Ph.D. Gwangju Institute of Science and Technology, 2002, Assistance Professor, Biomedical Polymer, jaehyung@khu.ac.kr
Laboratories

- **Organic Polymer Electronic Materials Laboratory**
  Director: Professor, Kap-Jin Kim (kjkim@khu.ac.kr)
  **Research Overview**
  - Smart textiles sensing and analyze physiological signals from human body
  - Tactile sensors having piezoelectricity, piezoresistivity, and piezocapacitivity
  - Nonvolatile polymer random access memory device and organic field effect transistor
  - Electrospinning application
  - Organic photovoltaics/dye sensitized solar cells/nanogenerators
  - Regenerated cellulose fiber from cotton pulp
  - Polymer nanocomposites
  - Instrumental characterization of polymers
  **Ongoing Projects**
  - Piezoresponding and tactile sensing textiles
  - Development of wellness textile system having health management function
  - The development of a novel regenerated cellulose fiber from cotton linter
  - The development of product technology for cotton linter cellulose regenerated fiber
  - Manufacturing technology for high flame-resistant PPS interior fabrics

- **Polymer and Fiber Materials Research Laboratory (PFMRL)**
  Director: Professor, Joon-Youl Lee (jylee@khu.ac.kr)
  **Research Overview**
  - Application of vibrational spectroscopies to the study of multicomponent polymer systems
  - Biomedical polymeric materials: Tissue engineering and hydrogels for drug delivery
  - Design and preparation of novel polymeric nanocomposites
  **Ongoing Projects**
  - Synthesis and characterization of stimuli-responsive hydrogels
  - Development of superhydrophobic coatings by self-assembling multilayer fabrication
  - Development and characterization of nanoparticle/polymer coating systems for materials performance enhancement
  - Chemical modification of inorganic nanoparticles for polymeric nanocomposites

- **Biomacromolecular Research Laboratory (BMR)**
  URL: http://web.khu.ac.kr/~Nanobio/
  Director: Associate Professor, Jae-Hyung Park (jaehyung@khu.ac.kr)
  **Research Overview**
  The research areas at BMR have included the development of novel polymeric materials that can be used for biomedical applications. Since polymers have excellent biocompatibility, they have received increasing attention as constituents of artificial organs and drug delivery systems. In our laboratory, polymeric nanoparticles have been developed for tumor targeting, oral drug delivery, and tissue engineering. Also, the injectable systems for protein delivery have been studied, which can enhance the biological stability and therapeutic effect of protein drugs. Research projects to enhance the synergistic effects have been collaborated with leading research groups in the world such as the School of Pharmacy at Purdue University, Biomedical Research Center at Korea Institute of Science and Technology, School of Medicine at Ulsan University, and School of Pharmacy at Seoul National University. In recent years, our group has extended the research area to the nanocomposites, composed of the inorganic core and the biocompatible polymeric shell, for tumor diagnosis as well as treatment.
  **Ongoing Projects**
  - Theranostic nanoparticles for cancer therapy and imaging
  - Protein delivery systems based on macromolecular chaperone
  - Hybrid nanoparticles for multimodal imaging of cancer
  - Polymeric nanomedicine for treatment of rheumatoid arthritis
  - Self-assembled nanogels for active targeting of atherosclerosis
The graduate program of the department empower our students to gain technical, design, and management skills needed for leadership. We emphasize fundamental principles and design methods that apply to many career paths. The research activities in the Department include new developments in structural analysis and design, soil exploration and testing techniques, surface and groundwater studies, pavement analysis and design, and the treatment of waste water and remediation of polluted soil. Research may involve theoretical developments, physical testing, and computer modeling. Our research deepens the understanding of the underlying science and engineering practice. There are various fields in the department including Geotechnical Engineering, Structural Engineering, Water Resources Engineering, Environmental Engineering and Highway Engineering. The department encourages students to apply their classroom knowledge and develop their creative potentials and abilities through various on and off-campus activities. Most graduates work in government, research center, public and private construction and engineering company.

Degree Requirements
- At least 24 course units of graduate level credit in Civil Engineering courses are required for the master’s degree, 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students should pass a qualifying examination.
- Students should complete all requirements, such as publication, presentation, dissertation and document requirements, as determined by the thesis committee.
- A thesis advisor can be any faculty member from the Department of Civil Engineering.

Courses

Faculty
Jae-Soo Shim, Ph.D. Seoul National University, 1986, Professor, Structural Engineering, jsshim@khu.ac.kr
Zoo-Ok An, Ph.D. Korea University, 1989, Professor, Structure Engineering, zoan@khu.ac.kr
Eun-Tae Lee, Ph.D. Korea University, 1987, Professor, Water Resource Engineering, etlee@khu.ac.kr
Young-Jin Mok, Ph.D. University of Texas at Austin, 1987, Professor, Geotechnical Engineering, yjmok@khu.ac.kr
Suk-Keun Lee, Ph.D. Texas A&M University, 1991, Professor, Highway Engineering, skrhee@khu.ac.kr
Eui-Seung Hwang, Ph.D. University of Michigan, 1990, Professor, Structural Engineering, eshwang@khu.ac.kr
Do-Hun Lee, Ph.D. Penn. State University, 1993, Professor, Water Resources Engineering, dophlee@khu.ac.kr
Seok-Oh Ko, Ph.D. Texas A&M University, 1998, Associate Professor, Environmental Engineering, soko@khu.ac.kr
Seong-Min Kim, Ph.D. University of Texas at Austin, 1996, Assistant Professor, Structural and Pavement Engineering, seongmin@khu.ac.kr
Won-Seok Chung, Ph.D. Purdue University, 2003, Assistant Professor, Structural Engineering, wschung@khu.ac.kr
Laboratories

- **Structural Engineering Laboratory**
  
  URL: http://web.khu.ac.kr/~jsshim
  
  Director: Professor, Jae-Soo Shim (jsshim@khu.ac.kr)
  
  **Research Overview**
  
  This lab basically studies the behavior and principle of steel & concrete structures. It is to analyze and understand the movements of the structures, predicting by using the deformed configuration. To be the proper guide to civil structural engineering, in an increasingly diverse society, we are trying to make the study results applicable to the field through improved research.
  
  **Ongoing Projects**
  
  - Bolt tension measurement from head strain data
  - FE modeling of four-bolt, tubular moment end-plate connections
  - Behavior and modeling of a bolt bearing on a single plate
  - Effective hybrid/mixed finite elements for folded-plate structures
  - Finite-element analysis of steel concrete composite plate girder

- **Reinforced Concrete Laboratory**
  
  Director: Professor, Zoo-Ok An (zoan@khu.ac.kr)
  
  Assistant Professor, Won-Seok Chung (wschung@khu.ac.kr)
  
  **Research Overview**
  
  The Reinforced Concrete Laboratory is intensively studies the analysis and design of various reinforced concrete structures such as bridge, railroad, subway and research various application field such as steel structure analysis (LRFD) etc. Moreover, the Laboratory conducts research about structural analysis that use common use analysis program such as MIDAS, SAP, LUSAS and development of application program for reinforced concrete structural analysis, and bridge and reinforced concrete column field.
  
  **Ongoing Projects**
  
  - Seismic analysis of long span bridges
  - Nonlinear analysis of cable stayed bridges
  - Creep and shrinkage effects on the cable stayed bridges
  - A dynamic behavior of cable stayed bridges that considers site character
  - Bucking analysis of cable stayed bridges

- **Hydro Laboratory**
  
  URL: http://web.khu.ac.kr/~hydrolab
  
  Director: Professor, Eun-Tae Lee (etlee@khu.ac.kr)
  
  Professor, Do-Hun Lee (dohlee@khu.ac.kr)
  
  **Research Overview**
  
  Our research at the Hydro-lab focuses on the development of the techniques necessary for developing and managing sustainable water resources. The research activities range from computer modelling to field works in order to study water cycle at various scales.
  
  **Ongoing Projects**
  
  - Flood modelling using IT technology
  - Application of data-driven methods for water resources management
  - Development of surface water-ground water coupling techniques

- **Soil Dynamics Laboratory**
  
  URL: http://web.khu.ac.kr/~sdlab
  
  Director: Professor, Young-Jin Mok (yjmok@khu.ac.kr)
  
  Assistant Professor, Young-Hoon Jung (jyounghoon@khu.ac.kr)
Research Overview
The major studies of the KHU Soil Dynamics Laboratory are not only finding out the deformation characteristics of soils at small strain range using field and laboratory tests, but the evaluation of site characteristics and the analysis of response.
We study the deformation characteristics of the ground, such as the evaluation of the static or dynamic stiffness and measuring module for designing paving roads by automating and improving of RC/TS testing equipments.
We use the Cross-hole test, Down-hole test, In-hole test in field and RC/TS test in the laboratory to evaluate site characteristics.
Our lab is also doing research on analytic modeling using FEM package such as ABAQUS or FLAC.

Ongoing Projects
- Development of In-hole method to measure stiffness of subsurface materials
- Examination of application of Off-shore seismic cone test
- Examination of tunnel-stability using considering vibration effect and measuring properties according to tunneling method
- Crack evaluation of concrete structure using high-performance seismic test and ultramodern semiconductor sensor
- Study of soil characteristic for measurement of freezing depth

Highway Engineering Laboratory
URL: http://web.khu.ac.kr/~highway
Director: Professor, Suk-Keun Rhee (skrhee@khu.ac.kr)

Research Overview
Our research at the Highway Engineering Laboratory at Kyung Hee University focuses on the study of Highway and Transportation Engineering. Also, we generally study the behavior and the characterization of asphalt pavement materials.

Ongoing Projects
- Development of material specification and new technology for the prevention of potholes occurring on asphalt pavement
- Study on failure of asphalt pavement and modeling of structural analysis
- Study on judgment of back filled propriety and abutment design programming

Bridge Engineering Laboratory
Director: Professor, Eui-Seung Hwang (eshwang@khu.ac.kr)

Research Overview
Our research at the Bridge Engineering Laboratory at Kyung Hee University focuses on the study of bridge behavior, load factor for LRFD, temperature loads for bridges, and movement load of bridges.
Through our research, we generally study the behavior of bridges and compute a new load factor for LRFD.

Ongoing Projects
- Drying shrinkage of fly-ash concrete
- Calibration of LRFD Bridge Design Code
- Development of bridge design load model (live load, temperature load, wind load)
- Study on the behavior of curved steel box girder bridges
- Study of tunnel stability on section of works No. 911 subway line 9

Civil & Environmental Engineering Laboratory
URL: http://gaya.khu.ac.kr/environment
Director: Assistant Professor, Seok-Oh Ko (Soko@khu.ac.kr)
Assistant Professor, Seok-Tae Kang (seoktae.kang@khu.ac.kr)

Research Overview
Our research at the Civil & Environmental Engineering Laboratory focuses on the treatment of waste water and remediation of polluted soil.
The purpose of our lab study is improving and developing physical and chemical treatment of contaminants. We create economical and efficient treatment & remediation processes.
Ongoing Projects
- Development of thermally enhanced remediation technology to remove semi-volatile organic contaminants from soils
- Surfactant-enhanced removal of organic contaminants from soils and groundwater
- Development of soil washing process for the removal of heavy metals from soils
- Advanced treatment processes of subaqueous sediments
- Development of reactive capping system for the removal of contaminants in sediments
- Laboratory and field study on the advanced oxidation process

Structural Systems & Materials Laboratory
URL: http://ssm.khu.ac.kr/
Director: Assistant Professor, Seong-Min Kim (seongmin@khu.ac.kr)

Research Overview
The studies at the Structural Systems & Materials Laboratory include numerical and experimental analyses of the structural systems such as slabs, beams, pavements, and bridges, and the development of the state-of-the-art structural systems and high performance materials.
This laboratory is currently developing new technologies for repairing of pavement systems using precast concrete slabs and for measuring concrete relative humidity to predict concrete shrinkage strains. In addition, some computer programs to analyze the behaviors of different types of pavement systems have been developed and some are now being developed.

Ongoing Projects
- Analysis of moisture variations in Portland cement concrete
- Analysis of cracking in continuously reinforced concrete pavement systems in the KHC Test Road
- Development of the Korean pavement design guide
- Analysis of temperature and moisture distributions in concrete pavement structures
- Development of detailed technologies for precast pavement systems

Graduate School

Department of Architectural Engineering
Tel: +82 31 201 2536    Fax: +82 31 202 8854    E-mail: khwc5800@khu.ac.kr    URL: http://archieng.khu.ac.kr

Graduate Studies in Architectural Engineering is extensively devoted to the understanding of building systems, construction engineering and management and environment system engineering as well. The graduate architectural engineering program is divided into three major areas: environmental system engineering, structural engineering, and construction engineering and management. Environmental systems engineering deals with electrical, communications and control, lighting, heating, ventilating, air conditioning, fire protection, plumbing, and acoustics. Structural engineering covers analysis and design, behavior of structural systems, earthquake engineering, engineering science and mechanics, high-performance materials, and computer-aided engineering. A wide range of management skills based on construction engineering is crucial to construction engineering and management. Students will be given a variety of opportunities to experience the state of the art architectural engineering and related technologies based on both theoretical and practical interactions with their professors.
Degree Requirements

- At least 24 course units of graduate level credit in Architectural Engineering courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the AE thesis committee.
- A thesis advisor can be any faculty member from the Department of Architectural Engineering.

Courses

**Environmental Planning and Engineering**

**Structural Engineering**

**Construction Engineering and Management**

Faculty

Jeong-Tai Kim, Ph.D. Yonsei University, 1985, Professor, Building Science, jtkim@khu.ac.kr
Choong-Hee Han, Ph.D. Georgia Institute of Technology, 1992, Professor, Artificial Intelligence, chhan@khu.ac.kr
Hee-Chul Kim, Ph.D. New Mexico State University, 1991, Professor, Civil Engineering, kimhc@khu.ac.kr
Sun-Kuk Kim, Ph.D. Seoul National University, 1992, Professor, Architectural Engineering, kimsuk@khu.ac.kr
Won-Kee Hong, Ph.D. University of California at Los Angeles, 1989, Associate Professor, Earthquake Analysis, hongwk@khu.ac.kr
Jun-Bok Lee, Ph.D. North Carolina State University, 1999, Associate Professor, Construction Engineering and Management, leejb@khu.ac.kr
Young-Hak Lee, Ph.D. Pennsylvania State University, 2004, Assistant Professor, Civil Engineering, leeyh@khu.ac.kr
Geun-Young Yun, Ph.D. University of Cambridge, 2008, Full-time Lecturer, Building Science, gyyun@khu.ac.kr

Laboratories

- Center for Sustainable Healthy Buildings (CSHeB) Light & Architectural Environment Laboratory (LAEI)
  Director: Professor, Jeong-Tai Kim (jtkim@khu.ac.kr)
  Assistant Professor, Geun-Young Yun (gyyun@khu.ac.kr)

Research Overview

The Center for Sustainable Healthy Buildings (CSHeB) has been nominated as an Engineering Research Center (ERC) in September of 2008. It dedicates to the advancement of new ideas, substantiation of related researches, international cooperation, the training of professionals, and the growth of pragmatic knowledge in the field of healthy building design, control, construction, operation and management. The Center consists of five universities and 70 people.

The Light & Architectural Environment Laboratory was founded in 1980 and nominated as National Research
Laboratory (NRL) in July 2001. It was the first and the only NRL in the field of lighting and environmentally friendly architecture. Since 1999, as a fundamental solution to enhancing the country’s international industrial competitiveness in the new century, the Ministry of Science and Technology of the Korean Government has been establishing nationally supported laboratories, each designated as a National Research Laboratory. To meet the country’s industrial need for core technologies, each designated laboratory is encouraged to develop technological capabilities in its own strategic area, and expected to improve its research productivity, strengthen its linkage to industry, and to increase the transfer and commercialization of its research results. Light and Architectural Environment Laboratory was the first NRL in field of architecture.

Currently, we have 3 post doctoral researchers, 5 Ph.D. candidates 4 Master’s integrated program and 6 Master’s program students. The sky simulator with 7-meter-diameter, the heliodon with 1.5-meter-height, the mock-up model with 82 square meters, and other research facilities are available for teaching, research, innovative design projects with research value, and projects of public interest.

Ongoing Projects
- Sustainable Healthy Building (funded by Ministry of Education, Science and Technology)
- Development of advanced building integrated daylighting system (funded by Ministry of Education, Science and Technology)

Kyung Hee Construction Engineering & Management Laboratory
Director: Professor, Choong-Hee Han (ehhan@khu.ac.kr)
Professor, Sun-Kuk Kim (kimsuk@khu.ac.kr)
Assistant Professor, Jun-Bok Lee (leejb@khu.ac.kr)

Research Overview
An increasingly competitive market environment requires construction projects to be rigorously managed in all the stages of the construction procurement process. This means a more integrated and effective way of managing construction projects should be developed. The research in the Construction Engineering and Management Research Lab includes work in Computer Integrated Construction (CIC), project planning and scheduling, procurement management, project management related topics, construction method development, and optimization of construction operations using simulation.

Although most research work performed in this lab is fundamentally based on the areas of construction engineering and management, the focus is on developing the inter-disciplinary nature of the work. Further, there also exists close cooperation with the construction industry so that practical issues can be properly studied.

Ongoing Projects
- Consulting of Headquarter Building Construction (Korea Telecommunication Infotech Co. Ltd.)
- Development of efficient project management methodology for the Hyundai Engineering & Construction Company (Hyundai Engineering & Construction Company)

Kyung Hee University Structural Engineering Laboratory (KHUSEL)
Director: Professor, Hee-Chul Kim (kimhc@khu.ac.kr)
Associate Professor, Won-Kee Hong (hongwk@khu.ac.kr)
Assistant Professor, Young-Hak Lee (leeyh@khu.ac.kr)

Research Overview
The research of this laboratory covers analysis and design, behavior of structural systems, and earth engineering. Composite structural engineering using fiber reinforced plastic including carbon and glass fiber is one of the main interests. ECSEL has published many papers in this field internationally. ECSEL has become one of the leaders in composites engineering by developing both theoretical and practical engineering methodologies. The successful implementation of carbon FRP to the new construction is another achievement by this laboratory.

Ongoing Projects
- Development of concrete filled carbon tube structures (Ministry of construction and transportation)
The major role of the Department of Nuclear Engineering is to supply qualified research manpower to demanding nuclear R&D sectors, research institutes or centers in either national labs or private companies. Current demands have come from nuclear power engineering related to power plant design and construction of both present-generation and next-generation. Most graduates work with research teams in the nuclear industry. In the department, 5 professors and 40 graduate students are busy conducting valuable research. The number and budget size of research projects contracted to the Nuclear Engineering Department are ranked at the top-lines in Kyung Hee University. Research fields and corresponding curriculum subjects are nuclear reactor core design, fuel cycle analysis, plant system engineering, radioactive waste management, radiation science and engineering, nuclear safety analysis, nuclear environmental assessment, and material research. There is one NRL (designated by MOST), one IERC (designated MOCIE), one radiation monitoring center (designated by MOST) and two special labs, CyLEX (which is a cyber lecture and experimental classroom) and educational reactor AGN-201 (which is the only university research reactor in Korea).

Degree Requirements
- At least 24 course units of graduate level credit in Nuclear Engineering courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the department thesis committee.
- A thesis advisor can be any faculty member from the Nuclear Engineering Department.

Courses

Faculty
Won-Keun Lee, M.E. Dankook University, 1984, Emeritus Professor, Radiation Detection & Health Physics, wklee@khu.ac.kr
Sang-Nyung Kim, Ph.D. Massachusetts Institute of Technology, 1984, Professor, Thermal Hydraulics, snkim@khu.ac.kr
Myung-Hyun Kim, Ph.D. Massachusetts Institute of Technology, 1988, Professor, Reactor Physics, mhkim@khu.ac.kr
Kwang-Hun Park, Ph.D. University of California, Berkeley, 1989, Professor, Nuclear Material, kpark@khu.ac.kr
Joo-Ho Whang, Ph.D. Georgia Institute of Technology, 1986, Professor, Radioactive Waste Management, joohowhang@khu.ac.kr
Gyun-Young Heo, Ph.D. KAIST, 2004, Assistant Professor, Maininformatics, gheo@khu.ac.kr
Kwang-Pyo Kim, Ph.D. University of Florida, Gainesville, FL, 2005, Full-time Lecturer, Health Physics, kpkim@khu.ac.kr

**Laboratories**

- **Health Physics Laboratory**
  
  **Director:** Professor, Won-Keun Lee (wklee@khu.ac.kr)

  **Research Overview**
  
  The Health Physics Laboratory focuses on the study of radiation protection and measurement, dose evaluation, basic biological impact on human tissues from radiation, deterministic and probabilistic environmental assessment of radiation release. The Lab is also in charge of operating the educational reactor AGN-201 and national radiation monitoring post.

  **Ongoing Projects**
  
  - Radiation regulation study on air concentration limit of radon gas in Korea
  - Study on maximum permissible concentration limit from sea food intake of Kori plant site residents
  - Measurement of environmental radiation in Suwon area (operation of monitoring post)
  - Operation of AGN-201 Kyung Hee Research/Educational Reactor

- **Thermal Fluid Experimental Laboratory**

  **Director:** Professor, Sang-Nyung Kim (snkim@khu.ac.kr)

  **Research Overview**
  
  The Thermal Fluid Experimental Laboratory focuses on the experimental analysis of nuclear plant systems related to plant engineering design, plant construction and architecture engineering, operation and maintenance, safety regulations. This lab has built several semi-scale mockup test facilities, such as steam generator, valves, pumps, and pressurizers.

  **Ongoing Projects**
  
  - Natural circulation experiment of advanced PWR plant
  - Thermal stratification experiment of surge line pipes of IRWST
  - Investigation of liquid zone control system function on CANDU power control system
  - Theoretical and experimental investigation of flow induced vibration in SG
  - Experimental investigation for initiation cause of check valve malfunction at nuclear power plants

- **Nuclear Reactor Analysis Laboratory**

  **URL:** http://web.khu.ac.kr/~NRAL

  **Director:** Professor, Myung-Hyun Kim (mhkim@khu.ac.kr)

  **Research Overview**
  
  NRAL focuses on three research areas of nuclear design and radiation shielding:
  
  - Improvement of current nuclear power plant core performance based on nuclear design discipline. They are invention of new control schemes, new burnable poisons and advanced new fuels.
  - Development of new reactor concepts for the Generation-IV nuclear reactors - New PWR, Sodium Fast Reactor and Lead-Bismuth Fast Reactor. Conceptual design work, however, is focused on nuclear design performances and transmutation characteristics of LLM and fission products.
  - Development of calculational computer code systems and to evaluate a radiation dose for high-energy radiation transport within a shielding structure. This covers both space radiation shielding and proton accelerator shielding.

  **Ongoing Projects**
  
  - Application of thorium blanket heterogeneous fuel core in PWR
  - Nuclear design feasibility study for duplex burnable poison rods
  - Nuclear design of Pb-Bi cooled fast transmutation reactor - PEACER
  - Improvement of reload core maintenance operation in PWR plant
  - Upgrade and improvement of AGN-201 reactor and experimental facilities
  - Radiation shielding methodology development for high energy proton accelerator - KOMAC
  - Study on nuclear engineering application in space industry
Nuclear Material Laboratory
URL: http://web.khu.ac.kr/~numat
Director: Professor, Kwang-Hun Park (kpark@khu.ac.kr)
Research Overview
The Nuclear Material Laboratory focuses on three research areas:
- Nuclear reactor materials for fuel cladding and structures. A corrosion test and experiment has been done for material performance check.
- Nuclear fuel development of uranium oxide. Experiments were done at KAERI reactor HANARO as a collaboration research.
- Decontamination and decommissioning of nuclear plant. Development of new solvent solution for a supercritical CO₂ decontamination has been done as NRL research with Department of Chemistry.
Ongoing Projects
- Clean decontamination research for nuclear plants (NRL topic)
- Measurement and database study for fission gas release rate within a U/Th oxide fuel pellets
- Theoretical study on point defect model in uranium oxide
- Supercritical CO₂ extraction process in radiation environment
- Evaluation of probabilistic fracture mechanics of nuclear reactor vessels

Radioactive Waste Research Laboratory
Director: Professor, Joo-Ho Whang (joohowhang@khu.ac.kr)
Research Overview
The Radioactive Waste Laboratory focuses on two research fields:
- Radioactive waste management. This covers a study about the characteristics of nuclear waste from nuclear power plant and research of treatment and disposal of radioactive waste. The method for low-level waste is quite different from high-level waste.
- Application of radiation and radioactive isotopes in industries, such as soil thickness detection in civil engineering, surveillance detection at airport and seaport, medical diagnostic photography.
Ongoing Projects
- Study on decontamination regulation on TRIGA reactor site
- Waste disposal study on LLW and HLW from Korean nuclear power plants
- Development of digital dental X-ray system
- Development of scintillators for X-ray and neutrons
- Radiation level monitoring in nuclear power plants during refueling outage
- Development of neutron radiography system

Mainformatics Laboratory
URL: http://eslab.khu.ac.kr
Director: Professor, Gyun-Young Heo (gheo@khu.ac.kr)
Research Overview
Mainformatics is a brand-new terminology representing the fusion discipline of maintenance technology cooperated by information science, informatics.
Our group aims at achieving the catchphrase, “THE RIGHT WORK, ON THE RIGHT EQUIPMENT, AT THE RIGHT TIME” with information manufacturing such as knowledge discovery and data mining.
Ongoing Projects
- Applications of condition monitoring techniques for quantifying leakages from reactor coolant systems
- Development of process reliability monitoring for power plants
- Development of online service support tools using condition monitoring technology
- Development of causality analyzer for maintenance/test tasks in nuclear power plants

ALPHS Laboratory
URL: http://web.khu.ac.kr/~HPLAB
Director: Professor, Kwang-Pyo Kim (kpkim@khu.ac.kr)
Research Overview

Advanced Laboratory for Health Physics Studies (ALHPS) are interested in studying relationship between radiation exposure and health effect. Specific researches are as follows:

- Radiation dosimetry from various radiation sources, including occupation exposure, environmental exposure, and medical radiation exposure.
- Risk assessment from radiation exposure.
- Radiation safety and protection.

Ongoing Projects

- Study of organ dose estimate from Computed Tomography
- Study of the mortality risk related to doses received by the medical personnel involved in fluoroscopy-guided procedures
- Study of the projected risk among patients with computed tomography (CT) scans
- Epidemiologic studies of cancer risks arising from the use of CT scans

Reliability Engineering Analysis Laboratory

URL: http://real.khu.ac.kr
Director: Professor, Yoon-Suk Chang (yschang@khu.ac.kr)

Research Overview

The REAL focuses on four research areas:

- Structural integrity assessment to develop failure prediction models, engineering softwares and virtual plant.
- Risk assessment based on probabilistic analysis, risk-based inspection and Weibull statistics techniques.
- Damage mechanics analysis by using continuum damage models and multi-scale simulation model.
- Advanced simulation which is closely related to large-scale analysis and multi-physics simulation.

Ongoing Projects

- Development and operation of reactor experiment courses and nuclear facility practical education program
- Development of numerical analysis techniques based on damage mechanics and fracture mechanics
- Development of a coupled numerical method for vortex induced vibration analysis of tube bundle
- Development of Green’s function for fatigue monitoring of system-integrated modular advanced reactor
- Development of a residual stress distribution estimation model for J-grooved dissimilar metal welds
- Thermal fatigue analyses of branch line and mixing tee

NECS Laboratory

URL: http://hdkims.khu.ac.kr/
Director: Professor, Hyung-Dae Kim (hdkims@khu.ac.kr)

Research Overview

Nuclear energy conversion and safety (NECS) laboratory is interested in understanding fundamentals of the thermal-fluid-solid interactions at micro and nanoscale levels, and how this can be effectively manipulated for significant breakthroughs in two-phase heat transfer theories along with applications to nuclear power plant and safety systems.

Ongoing Projects

- Development of measurement techniques for boiling heat-transfer characteristics at micro-scale using infra-red thermography technique
- Experimental Investigation of Fundamental Mechanisms of Nucleate Boiling Critical Heat Flux using High-Speed Infra-Red Thermometry Technique
- Test on wetting characteristics of nano-structured surfaces for improvement of thermal hydraulic performance and safety
The mission of the Department of Computer Engineering is to discover new things about computing, create new computing systems, and educate first-rate students at all levels. We are a diverse department with 14 faculty, 80 Master's students and 81 Ph.D. students. Our department continually updates its curriculum, because we believe that it is important to stay on top without staying in the forefront. Recently, our department developed new courses in databases, graphics, algorithm, networking, distributed system, embedded system, software engineering. Recognized as a research leader, the impact of KHU’s Computer Engineering on new leading technologies is evidenced by the breadth of topics tackled by our faculty and graduate students. They include Artificial Intelligence, Computer Graphics & Visualization, Network Security Embedded Systems, Databases, Information Infrastructure & Data Mining, Mobile Computing & Networking, Networks & Distributed Systems, Multimedia Information and Communications, Software Engineering, Middleware Platforms Algorithms for Information and Communications Ubiquitous Computing, Mobile Convergence.

**Degree Requirements**

- At least 24 course units of graduate level credit in Computer Engineering courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the CE thesis committee.
- A thesis advisor can be any faculty member from the CE Department.

**Courses**


**Faculty**

- Young-Jae Song, Ph.D. Myongji University, 1979, Professor, Software Engineering, yjsong@khu.ac.kr
- Hyon-Soo Lee, Ph.D. Keio University, 1985, Professor, Computer Architecture, leehs@khu.ac.kr
- Tae-Choong Chung, Ph.D. KAIST, 1987, Professor, Artificial Intelligence, tcc Chung@khu.ac.kr
- Ok-Sam Chae, Ph.D. Oklahoma State University, 1986, Professor, Computer Vision, oSchae@khu.ac.kr
- Chi-Geun Han, Ph.D. Pennsylvania State University, 1991, Professor, Computer Algorithms, cghan@khu.ac.kr
- Seoung-Yong Lee, Ph.D. Illinois Institute of Technology, 1987, Professor, Distributed Systems, sylee@oslab.khu.ac.kr
- Byeong-So Jeong, Ph.D. Georgia Institute of Technology, 1995, Professor, Database, jeong@khu.ac.kr
- In-Tae Ryoo, Ph.D. University of Tokyo, 1997, Professor, Information Communication, itryoo@khu.ac.kr
- Choong-Seon Hong, Ph.D. Keio University, 1997, Professor, Mobile Computing, cshong@khu.ac.kr
- Gwang-Hoon Park, Ph.D. Case Western Reserve University, 1995, Professor, Image Processing, gpark@khu.ac.kr
- Jin-Sung Cho, Ph.D. Seoul National University, 2000, Associate Professor, Ubiquitous Computing, chojs@khu.ac.kr
- Young-Koo Lee, Ph.D. KAIST, 2002, Assistant Professor, Database, yklee@khu.ac.kr
Eui-Nam Huh, Ph.D. The Ohio University, 2002, Associate Professor, Grid Computing, johnhuh@khu.ac.kr
Sung-Won Lee, Ph.D. Kyung Hee University, 1998, Assistant Professor, Wireless Broadband Communication, drsungwon@khu.ac.kr
Brian J. DAuriol, Ph.D. The New Brunswick University, 1995, Assistant Professor, Ubiquitous Computing, dauriol@oslab.khu.ac.kr

Laboratories

- **Software Engineering Laboratory**
  Director: Professor, Young-Jae Song (yjsong@khu.ac.kr)
  **Research Overview**
  The Software Engineering Laboratory focuses on the study of Component Based Software Engineering, Object Based Modeling, Re-Engineering and Design Pattern that facilitate the development of software systems for low cost/high quality environments. The research is to create novel component-based development tools that will enable the continued evolution of component services.
  **Ongoing Projects**
  Study of the optimized component-based Java virtual machine and development tool set to support mobile embedded real-time systems

- **Computer Architecture and Neural Network Laboratory**
  URL: http://cann.khu.ac.kr
  Director: Professor, Hyun-Soo Lee (leehs@khu.ac.kr)
  **Research Overview**
  We are interested in the research of computer architecture and neural network. Research areas that are of interest include parallel processing algorithms, ASIC-like devices and neural network, pattern recognition, and data compression. The lab has a strong applications focus and has developed applications, demonstrations and tutorials.
  **Ongoing Projects**
  Embedded Linux system based vehicle exhaust gas measurement software and extended module development

- **Multimedia & Graphics Laboratory**
  URL: http://vision.khu.ac.kr
  Director: Professor, Ok-Sam Chae (oschae@khu.ac.kr)
  **Research Overview**
  Research in our lab covers various topics in the area of image processing and analysis. Our focus has been on image processing software development environment, medical image processing, and moving object detection. We have developed an image processing environment and the dental PACS system that have been successfully commercialized. Recently, we are developing the tooth segmentation algorithms for the reconstruction of 3D tooth model from CT slices and the moving edge extraction algorithms for intruder detection.

- **Intelligent System Laboratory**
  Director: Professor, Tae-Choong Chung (tcchung@khu.ac.kr)
  **Research Overview**
  The two goals of computer science and engineering are: 1) to make the computer faster and 2) to make it more intelligent. Therefore, study/research on artificial intelligence is promising. Especially intelligent agent was adopted as one of ten strategic topics for developing Korea in the next decade. The Intelligent System Lab focuses on the study of intelligent agent, semantic web and ontology, machine learning, logic programming, meta-search and optimization. We try to upgrade computer software and system to replace tedious and iterative jobs.
  **Ongoing Projects**
  - Development of search/response agent for B-board
  - Development of touch math program

- **Algorithms Laboratory**
  URL: http://algorithms.khu.ac.kr
  Director: Professor, Chi-Geun Han (cghan@khu.ac.kr)
Research Overview
Since 1993, this lab has focused mainly on graph theory optimization problem, basic Genetic algorithms, and technology involving the present Internet. Our research at the Telecommunications Network & Algorithms Laboratory deals with the study on Network Topology Construction using Graph Theory, Application of Genetic Algorithms, Network Security, Multicast Routing Algorithms, Survivable Network, Crypto Algorithms, XML (eXtensible Markup Language).

Ongoing Projects
- Algorithm lecture contents development research
- Survival network design algorithm research
- Professor results & annual salary improvement research
- Architecture information management system design using XML

Real-Time & Multimedia Laboratory
URL: http://oslab.khu.ac.kr
Director: Professor, Sung-Young Lee (sylee@oslab.khu.ac.kr)

Research Overview

Ongoing Projects
- Java TV API (Multimedia): Developing middleware architecture components for Java TV API
- Mobile Grid (Distributed Systems): Development of grid middleware optimization technology
- CAMUS (Context-Aware Middleware for Ubiquitous Computing Services)
- Component-based real-time Java virtual machine
- SensOS (Sensor Operating Systems)

Database Laboratory
URL: http://dblab.khu.ac.kr
Director: Professor, Byeong-Soo Jeong (jeong@khu.ac.kr)

Research Overview
Our primary research at the Database Laboratory is to study subjects pertaining to information access and to advance parallel development of database technologies. Especially, our main objective is Parallel Database, Clustering Computer, Data Mining and Mobile Database that promote the development of commercial mobile data management in wireless environments. Through our research, we create practical parallel database technologies and database systems that will enable the new direction of data processing.

Ongoing Projects
- Integrated scheme for the effective control of intrusion detection systems

Infocomm (Information and Communications) Laboratory
URL: http://infocomm.khu.ac.kr
Director: Professor, In-Tae Ryoo (itryoo@khu.ac.kr)

Research Overview
The Infocomm Lab, founded in 1999, has focused its research on computer networks and Internet technologies such as traffic managements, queuing mechanisms, quality of service controls and network securities. Especially, it acts as a supervisory agency to manage the Cisco Networking Academy (CNA) curricula including CCNA, CCNP, Fundamentals of Network Security and Fundamentals of Wireless LANs in Korea.

Ongoing Projects
- Development of networking academy programs in Korea
- Network securities in ubiquitous computing and networking environments
- Standardization of information communications networks service models in Korean information infrastructure
- Wireless mobile and Internet traffic managements
Networking Laboratory
URL: http://networking.khu.ac.kr
Director: Professor, Choong-Seon Hong (cshong@khu.ac.kr)
Research Overview
Our research focuses on the study of Mobile Computing, Ubiquitous Networking, Networking Management and Network Security that facilitate the development of information networking systems for wired/wireless environments. Through our research, we create novel network protocols and networking systems that will enable the continued evolution of Internet services over the network.
Ongoing Projects
- Development of ubiquitous-oriented network security system
- Development of mobile IP fast handover protocol using prediction method
- A study on policy-based network security on active network
- Development of wireless TCP and mobile IP protocol for mobile networks
- A study on secure transfer protocol using XML for next generation operating support system
- Development of network management system for power line communication

Video Media Laboratory
Director: Professor, Gwang-Hoon Park (ghpark@khu.ac.kr)
Research Overview
The Video Laboratory provides theoretical basis and component and system technologies for the video system which is part of the multimedia system. Our research focuses on the MPEG system’s video compression such as FGS, scalable video coding. Through our research and components we provide high quality video systems for the future.
Ongoing Projects
- Network-aware scalable video coding

Ubiquitous Computing Laboratory
URL: http://uclab.khu.ac.kr
Director: Professor, Jin-Sung Cho (chojs@khu.ac.kr)
Research Overview
Ubiquitous computing covers a wide range of research topics in the computer and communications area. So, we pay attention to three key words: Wireless, Mobile, Portable. Our current research interests are centered on wireless/mobile network and embedded/real-time systems and software. Please visit our home page for more information.
Ongoing Projects
- Integrating next-generation wireless access networks into cdma2000 mobile communication network
- Integrated schemes for an effective control of intrusion detection systems QoS support for IP-based radio access network (IP-RAN)
- Study on the architecture of IP-based base station system

Data and Knowledge Engineering Laboratory
Director: Professor, Young-Koo Lee (yklee@khu.ac.kr)
Research Overview
Data and Knowledge Engineering Lab has two main research objectives: (1) efficient storage and retrieval of data and (2) discovery and management of knowledge. Current research activities focus on database systems, spatiotemporal databases, grid databases, ubiquitous databases, data warehousing, on-line analytical processing, data mining, and bioinformatics. We are trying to develop a new model of information systems that will meet the challenges and requirements of the coming ubiquitous computing environment.
Ongoing Projects
- Data mining from protein databases using protein’s 3D structures
- Database techniques for ubiquitous environments
- Study on efficient data structure for distributed PML data

Internet Computing and Network Security
URL: http://icns.khu.ac.kr
Director: Professor, Eui-Nam Huh (johhuh@khu.ac.kr)

Research Overview

Internet Computing is the domain of distributed computing connecting heterogeneous and dispersed network resources through a publicly shared communication medium. The shared nature of the Internet implicitly poses many non-trivial research challenges, such as security, performance, and quality of services. We at ICNS are determined to resolve these issues. We are working on a number of research projects in the domain of Web Services, Grid Systems, Temematics and WiBro to enhance the network performance and security.

Ongoing Projects

- Anomalies detection on BcN using agents (Security)
- National eScience for weather information system (Grid Computing)
- Ubiquitous information dissemination (Web Services)
- Temematics open portal server (Temematics)
- QoS and security for WiBro (Wireless Network)

Research Interests

- Grid/Utility/Pervasive computing
- Mobile ad hoc networks
- Network security
- Temematics systems

Mobile Convergence Laboratory

URL: http://mobilelab.khu.ac.kr

Director: Professor, Sung-Won Lee (drsungwon@khu.ac.kr)

Research Overview

1) Wireless Broadband Communication
   - Femtocell based home and enterprise mobile broadband network
   - MAC for wireless broadband communication
   - MAC for wireless local area network (LAN)
   - Mobility management for wireless broadband communication
   - Resource management for wireless broadband communication
   - Handover for wireless broadband communication
   - Network architecture and capacity for wireless broadband communication
   - TCP for wireless broadband communication
   - Inter-working between wireless broadband system and wireless LAN
   - Radio frequency (RF) scheduler for wireless broadband communication
   - Quality of service (QoS) guarantee for wireless broadband

2) Wired Communication
   - Future Internet
   - Data-link control (DLC) and congestion control
   - Asynchronous transfer mode (ATM)

3) Network based Intelligent Mobile Service
   - Open network and service interface
   - Voice over IP (VoIP) over wireless broadband communication
   - Data and messaging service over wireless broadband communication
   - Intelligent mobile device service over wireless broadband communication

Ongoing Projects

- Samsung Electronics, “Research on innovative mobile service for 4G and beyond 4G networks”
- ETRI, “Research on low power emotive communication protocols”
- GIST, “Development of the core technology and virtualized programmable platform for Future Internet”
- SKKU, “Mobility management technology for future converged networks”
The graduate program in the Department of Industrial Engineering was found in 1990 as an important complement to its undergraduate program. The graduate program emphasizes providing students with opportunities to engage in a variety of research projects and professional practices. The faculty members of the program always endeavor to provide students with excellent education and research experiences for their successful career. Another Industrial Engineering graduate program is also available at the Industrial Liaison Research Institute at our university.

Degree Requirements
- At least 24 course units of graduate level credit in Industrial Engineering courses are required for the master’s degree, and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the IE thesis committee.
- A thesis advisor can be any faculty member from the IE department.

Courses
The Department of Industrial Engineering offers a variety of research opportunities in the following areas:
- Quality/Environment System Engineering
- Supply Chain Management
- Management Science
- Management Information Systems
- Human Factors Engineering
- CAD/CAM
- Technology & Engineering Economic Analysis
- Quality Engineering & Data Analysis
- Business Process Management

Faculty
- Jai-Rip Cho, Ph.D. Hanyang University, 1988, Professor, Industrial Engineering, jrcho@khu.ac.kr
- Yang-Byung Park, Ph.D. Oklahoma State University, 1984, Professor, Industrial Engineering, ybpark@khu.ac.kr
- Hyo-Seong Lee, Ph.D. University of Michigan, 1988, Professor, Industrial Engineering, hslee@khu.ac.kr
- Sang-Kuk Kim, Ph.D. University of Wisconsin, Madison, 1989, Professor, Management (MIS, Management Strategy), sangkkim@khu.ac.kr
- Seong-Nam Byun, Ph.D. University of Michigan, 1991, Professor, Industrial Engineering, snbyun@khu.ac.kr
- Young-In Kim, Ph.D. University of California at Berkeley, 1991, Professor, Mechanical Engineering, yjkim@khu.ac.kr
- Deok-Joo Lee, Ph.D. Seoul National University, 1995, Associate Professor, Industrial Engineering, ldj@khu.ac.kr
- Chang-Ho Chin, Ph.D. Texas A&M University, 2004, Assistant Professor, Industrial Engineering, chin@khu.ac.kr
- Jae-Yoon Jung, Ph.D. Seoul National University, 2005, Assistant Professor, Industrial Engineering, jyyung@khu.ac.kr

Laboratories
- Supply Chain Management Laboratory
  URL: http://scmie.khu.ac.kr
  Director: Professor, Yang-Byung Park (ybpark@khu.ac.kr)
Research Overview
The Supply Chain Management (SCM) Laboratory conducts interdisciplinary research in decision support tools and advanced technologies aimed at significantly increasing enterprise supply chain profit. Our work combines the use and development of heuristic search techniques such as a genetic algorithm and tabu-search, computer simulation, rule-based expert system, planning and scheduling, mathematical programming, neural network theory, mixed initiative problem solving. Over the years, the SCM Lab. has carried out a number of projects in the various areas of supply chain management such as an order management system, warehouse management system, transportation and distribution management system, vendor-managed inventory system, flexible manufacturing system, etc.

Ongoing Projects
- Development of the decision support system for the operation of vending machine supply chains in a green logistics environment
- Development of the decision support system for vendor-managed inventory policy in a retail supply chain
- Development of the logistics network simulator related SCM
- Development of the solution for the integrated production-distribution model
- A comparison study on retail-managed and vendor-managed inventory policies in the retail supply chain

Management Science Laboratory
URL: http://web.khu.ac.kr/~orlab
Director: Professor, Hyo-Seong Lee (hslee@khu.ac.kr)

Research Overview
The research at the Management Science Laboratory focuses on solving problems that arise in complex systems such as manufacturing or communication systems. The method includes the logical formulation, mathematical model construction, testing and validation of results, and sensitivity analysis processes involved in problem resolution. The tools used in model building and analysis include various techniques such as stochastic processes, queuing theory, mathematical programming, simulations, and petri-net.

Ongoing Projects
- Performance evaluation of production systems
- Analysis of Kanban and CONWIP systems
- Approximate analysis of queuing networks with finite capacity
- Reliability estimation and maintenance policy for stochastic system

Management Information System Laboratory (MIS Lab)
URL: http://mis.khu.ac.kr
Director: Professor, Sang-Kuk Kim (sangkkim@khu.ac.kr)

Research Overview
The MIS Laboratory has two main objective for the graduate studies. The first one is to apprehend comprehensive knowledge about the technical and human factors on the information systems analysis and design. The second objective is to grasp the strategical point of view toward the business and national economy related matters. The ultimate goal of the MIS Lab is training the graduate student not only as a capable MIS person or a consultant but also as a leader of society with a keen mind and a warm heart.

Ongoing Projects
- A study on the development of integrated DB model for international nuclear cooperations
- Energy related projects, Government economic development projects, etc.

Human Factors Engineering Laboratory
Director: Professor, Seong-Nam Byun (snbyun@khu.ac.kr)

Research Overview
The Human Factors Engineering Laboratory concentrates on all aspects of the way humans relate to the world around them, with the aim of improving operational performance, safety, through life costs and/or adoption through improvement in the experience of the end user. Specializations within this field include cognitive ergonomics, usability, human computer/human machine interaction, and user experience engineering. Our laboratory provides advanced computer-aided facilities for the study of nuclear issues in human factors engineering, human-computer interface, biomechanics, work physiology, cumulative trauma disorder, safety analysis, and product liability and...
safety.

Ongoing Projects
- Development of an evaluation system to manage train driver’s qualification for railway safety
- Review on international standard for the human factor design of the main control room in Korean nuclear power plants
- Aesthetic design of the main control room in Shin Kori 3&4 nuclear power plants
- A qualitative human reliability analysis to develop the countermeasures reducing human errors in a main control room of the SMART nuclear power plant
- Development of training requirements and evaluation method on APR1400 digital MMI (Man-Machine Interface)

Intelligent Systems Design Laboratory
URL: http://cadcam.khu.ac.kr
Director: Professor, Young-Jin Kim (yjkim@khu.ac.kr)

Research Overview
The Intelligent Systems Design Laboratory combines elements of learning, adaptation, and evolution capability of human beings to acquire knowledge regarding specific system and create software that are, in some sense, intelligent. The Laboratory’s research are closely related to the computational intelligence which includes Statistical methods, Artificial neural networks, Fuzzy theory, and Machine Learning, which in turn are applied to the Data Mining and Pattern Recognition to establish an intelligent systems for design and diagnostics.

Ongoing Projects
- Development of condition monitoring system for wind turbine
- Development of diagnostic system for automobile assembly line
- Development of traffic congestion prediction program for intelligent traffic system (ITS)
- Policy proposal for vehicle inspection system in Korea

Technological & Engineering Economic System Analysis Laboratory (TEESA)
Director: Professor, Deok-Joo Lee (ldj@khu.ac.kr)

Research Overview
The major research mission of the TEESA Lab is the economic and managerial analysis of technological and engineering systems. In particular, we develop economic evaluation methodologies for strategic decision-making in the investment of technological innovation such as R&D, manufacturing system, and information system. As main methodologies we attempt to apply DEA, AHP, Real options and Game theory for analyzing and improving the efficiency of technological system. Recently, we have been focusing on the topics regarding the economics of telecommunication, technology strategy, technology valuation, and R&D project selection.

Ongoing Projects
- Development of valuation methodology for R&D project considering innovation types: Real option approach
- Game theoretic approach for cross-layer design in wireless communications
- Development of the mathematical model and the S/W system for R&D project selection
- Optimal access pricing and efficient regulations in the land-mobile network competition: Game theoretic approach
- A survey study on the technological innovation systems of Korean information and telecommunication firms

Quality Engineering and Data Analysis Laboratory (QUAD Lab)
URL: http://www.quadlab.org
Director: Professor, Chang-Ho Chin (chin@khu.ac.kr)

Research Overview
The research objective of the QUAD Lab. is to develop a general statistical framework for effectively and efficiently monitoring, diagnosing, and controlling variation in data-rich environments such as manufacturing, computer and network systems and the healthcare and service industries. Variability is a major factor associated with the costs of poor quality performance. Improving process stability and capability by reducing variability is the key to competitiveness for enterprises. Current research interests are in the areas of statistical process control (SPC), data mining, activity monitoring, game theory, and customer relationship management (CRM).

Ongoing Projects
- Optimal design of control charts for autocorrelated processes
· Business activity monitoring/Business process mining
· Applications of data mining to customer relationship management
· Applications of game theory to mobile communications
· Health and healthcare surveillance monitoring
· Statistical method based Internet intrusion detection

### Business Process Management Laboratory (BPM Lab)

URL: [http://bpm.khu.ac.kr](http://bpm.khu.ac.kr)
Director: Professor, Jae-Yoon Jung (jyjung@khu.ac.kr)

**Research Overview**

Business Process Management (BPM) plays a critical role of bridging the divide between business and information technology. BPM aims at enhancing business performance by integrating business activities in value chain, which are generally performed with enterprise information systems, such as ERP, SCM, and CRM. The laboratory performs research on e-business, internet business, and ubiquitous services on basis of business process modeling and analysis techniques, called often workflow theory. We envision the next generation BPM which covers ubiquitous computing, Web 2.0, Semantic Web, as well as service computing.

**Ongoing Projects**

- Development of a real-time process mining and control system based on RFID data
- Collaborative process monitoring and intelligence for manufacturing collaboration
- The innovative service laboratory for service testing
- Development of a real-time food quality monitoring system

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### Department of Electronic Engineering

The Department of Electronic Engineering (EE) offers programs of graduate study leading to the degree of Master of Science and Doctor of Philosophy. Opportunities for graduate study and research exist in the areas of Optical Engineering, Semiconductor Engineering, Digital and Computer Systems, Multimedia Communication, and Automatic Control System. While professors give intensive lectures according to the curriculum meeting the recent needs in the industrial field, students are also intensively educated and trained through conducting leading edge research. The various joint research projects with industrial partners are being carried out under faculty supervision. The EE major also provides sufficient experimental opportunities to students. Laboratory facilities include fundamental electronics, electronic circuits, computer applications, applied electronics, digital signal processing, and ASIC laboratories. Those who have graduated from EE graduate study are now working in research and development at leading companies and institutes, and have been in universities as scholars.

### Degree Requirements

- At least 24 course units of graduate level credit in Electronic Engineering courses are required for the master’s degree and 60 course units for the doctoral degree (including units completed in the master’s courses).
- Students must pass a qualifying examination.
· Students must fulfill presentation, defense, and document requirements for the EE thesis committee.
· A thesis advisor can be any faculty member from the EE Department.

Courses

Faculty
Dae-Young Lee, Ph.D. Yonsei University, 1979, Emeritus Professor, Computer Networks, dylee@khu.ac.kr
Gye-Suk Jun, Ph.D. Yonsei University, 1983, Professor, Electromagnetic and Wireless Communications, gjsun@khu.ac.kr
Chong-Kuk Park, Ph.D. Yonsei University, 1979, Professor, Automatic Control and Robotics, ckpark@khu.ac.kr
Won-Kyung Cho, Ph.D. Hanyang University, 1986, Professor, VLSI Design, chowk@khu.ac.kr
Kwan-Soo Chung, Ph.D. Yonsei University, 1990, Professor, Semiconductors, kschung@khu.ac.kr
Young-Tae Park, Ph.D. University of California, Irvine, 1989, Professor, Digital Image Processing, ytpark2@khu.ac.kr
Yun-Hae Yeh, Ph.D. Texas A&M University, 1991, Professor, Fiber Optics, yhyh@khu.ac.kr
Woon-Sik Baek, Ph.D. Polytechnic Institute of New York, 1991, Professor, Optical Signal Processing, wsbaek@khu.ac.kr
Yun-Mo Chung, Ph.D. Michigan State University, 1991, Professor, ASIC and Computer, chung@khu.ac.kr
Deok-Young Suh, Ph.D. Georgia Tech, 1990, Professor, Multimedia Communications, suh@khu.ac.kr
Yong-Pyung Kim, Ph.D. Keio University, 1986, Professor, Lasers and Photonics, ypkim@khu.ac.kr
Jin-Sang Kim, Ph.D. Colorado State University, 2000, Associate Professor, VLSI Design, jskim27@khu.ac.kr
Won-Ha Kim, Ph.D. University of Wisconsin-Madison, 1997, Professor, Multimedia Signal Processing, wonha@khu.ac.kr
Yun-Hee Kim, Ph.D. Korea Advanced Institute of Science Technology (KAIST), 2000, Associate Professor, Mobile Communications, yheekim@khu.ac.kr
Kyu-Heon Kim, Ph.D. University of Newcastle upon Tyne, UK, 1996, Associate Professor, Digital Multimedia Processing, kyuhonkim@khu.ac.kr
Sang-Hoon Hong, Ph.D. Harvard University, 2001, Assistant Professor, Low Power Digital System, daniel@khu.ac.kr
Dong-Han Kim, Ph.D. Korea Advanced Institute of Science Technology (KAIST), 2003, Assistant Professor, Automatic Control and Robotics, donghani@khu.ac.kr
Jin-Hong Park, Ph.D. Stanford University, 2009, Full-time Lecturer, Advanced Semiconductor Devices, jhpark9@khu.ac.kr

Laboratories
■ Media Laboratory
Director: Professor, Doug-Young Suh (ssuh@khu.ac.kr)

Research Overview
Future Internet will serve various realtime multimedia services such as VOD (video on demand), smart phone, smart TV, and network game. Mobile Internet is getting popular and its condition is so harsh and time-varying that we develop novel technologies to harmonize video codecs and transport protocols for enhancing quality of service. By-products of these efforts include killer applications and contributions to the international standard organizations.

Ongoing Projects
· Cross layer optimization for mobile multimedia (BK21 CMM, ITRC RU-IPTV)
· International standardization activities in MPEG and 3GPP (Samsung, ETRI, KSA)
Computer System Architecture and VLSI Design Laboratory
URL: http://vlsi.khu.ac.kr
Director: Professor, Won-Kyung Cho (chowk@khu.ac.kr)
Associate Director: Assistant Professor, Jin-Sang Kim (jskim27@khu.ac.kr)

Research Overview
Our research focuses on VLSI and SoC (system-on-a-chip) designs; SoC design methodologies, reconfigurable digital system designs, low-power designs, and efficient arithmetic units designs. Students in our laboratory are divided into three sub-groups: nanoscale VLSI designs, communication research sub-group and image & video research sub-group. For efficient SoC designs, usually system aspects are investigated in advance before implementing SoCs. Therefore, students who want to study at our laboratory are strongly recommended to have knowledge about both digital VLSI systems design and top-level applications such as OFDM, ECC, SDR, image, and video processing algorithms. Our laboratory has lots of research facilities including front-end and back-end EDA tools for SoC designs at Kyung Hee - IT SoC research institute. We developed nanoscale circuit elements, efficient arithmetic chips, an ECC chip, a low-power DCT chip, a low-power motion estimation chip, NTSC decoder chip, pattern recognition chip, wireless modem chip, 3D and multiview video chips. Such modules will be integrated into sub-components for mobile and image & video SoCs which we are key circuits for future IT devices.

Ongoing Projects
- DFV (design-for-variability) - Aware nanometer CMOS circuit design
- SOI-based CMOS circuits designs for space and military applications
- 3D multiview video encoder design
- Reconfigurable low-power SoC design for MIMO OFDM systems

Laser Photonics Laboratory
Director: Professor, Yong-Pyung Kim (ypkim@khu.ac.kr)

Research Overview
We are investigating the generation, controlling, and application technologies of the coherent light for the next generation of the optical information era. Our ultimate objectives of the research include: 1) realization of the generation technology of novel lasers; 2) realization of the controlling technology of ultrashort pulse, monochromatic, broadband, and stabilized lasers; 3) creation of the application technology of novel lasers for optical communication, bio, and medical fields.

Ongoing Projects
- Development of solid-state dye laser system for medical application
- Development of excimer lamp pumped by micro-discharge
- Theoretical study on light scattering and absorption in human tissues
- Theoretical study on the generation of ultrashort pulse lasers
- Development of optical coherent tomography system for medical

SoC Design and Computers Laboratory
Director: Professor, Yun-Mo Chung (chung@khu.ac.kr)

Research Overview
Our research interests include SoC (System-on-a-Chip) design and computer applications for Internet and parallel processing. Especially our research interests are focused on System-level SoC design with high level hardware description languages such as VHDL, Verilog-HDL, and C/C++. In addition, we study 32-bit ARM processor architecture, hardware modeling with FSM, Embedded system, RTOS, reconfigurable system architectures, FPGA and SOPC design, and ubiquitous computing. As application fields we consider wavelet transform, encryption algorithms, audio systems, and display systems.

Ongoing Projects
- Design of serial speaker connection system for multi-channel audio systems
- Development of serial light control system
- Development of wireless speaker connection system
- VHDL modeling with FSM
- Spatial data mining
■ Optical Signal Processing Laboratory
URL: http://holo.khu.ac.kr
Director: Professor, Woon-Sik Baek (wsbaek@khu.ac.kr)
Research Overview
Our research focuses on optical signal processing in various applications. 1) We develop the diffuse optical tomography system which is a new modality to imaging in vivo (particularly breast cancer and brain tumor) non-invasively using near-infrared light source and detector arrays. The goal of the DOT system is imaging the function and metabolism in vivo with information of optical scattering and absorption of biological tissue predicted by forward solver. 2) We also develop image reconstruction algorithm which is optimized for the DOT system. 3) We develop the external cavity diode laser system for optical memory. 4) We develop signal processing for the digital holographic data storage system. 5) We develop computer generated holograms for information security.
Ongoing Projects
• Development of diffuse optical tomography system for medical imaging in vivo
• Development of the regularizing optimization algorithm for image reconstruction
• Development of external cavity diode laser system for optical memory

■ Automatic Control Laboratory
URL: http://autolab.khu.ac.kr/
Director: Professor, Chong-Kug Park (ckpark@khu.ac.kr)
Professor, Dong-Han Kim (donghani@khu.ac.kr)
Research Overview
In the Automatic Control Laboratory, we are actively working on the following research projects: 1) the position and force control of manipulators and the motion control of Wheeled Mobile Robot. We are using conventional control techniques and also intelligent control algorithms such as PID, optimal, adaptive, fuzzy-neural network, genetic, and immune system algorithm; 2) the navigation and guidance system for robots and vehicles; 3) develop sensor fusion techniques for robots. The sensor fusion system includes sonic sensors, laser sensors, IMU sensors, and GPS. Recently, we started working on the development of embedded web server for the remote control and monitoring of systems via the Internet. Possible applications may include remote machine diagnosis and home automation. We are also engaged in the development of SMT inspection systems using vision and laser distance sensors.
Ongoing Projects
• Control algorithm using immune system
• Vehicle navigation system using IMU
• Solder paste inspection system
• Remote monitoring and diagnosis technique of laser machine using embedded mini-web server

■ Microwave & Ultrasonic Laboratory
Director: Professor, Gye-Suk Jun (gsjun@khu.ac.kr)
Research Overview
Major research focuses at MU (Microwave & Ultrasonic) Lab are to develop and design novel components - filter, oscillator, amplifier, and antenna - in microwave and millimeter wave. We also research the characteristic analysis of the electromagnetic structures and integrate the sub-system such as RADAR, beam-forming system. For ubiquitous computing we also develop the RFID (Radio Frequency IDentification) system in UHF to apply the specification of AutoID. In addition to the microwave field, we investigate the scanning system and digital image processing system for detecting defects in materials by using ultrasound.
Ongoing Projects
• A structure analysis of the PBG (Photonic Band Gap) and DGS (Defected Ground Structure) in microwave frequency
• Development of a low-pass filter using DGS
• Development of a band-pass filter with attenuation pole at stop-band using DGS
• A study on performance improvement of RFID Transponder Antenna
• Development of a direct conversion RF module for UHF RFID system
Digital System & Computer Network Laboratory
URL: http://web.khu.ac.kr/~dscn
Director: Professor, Dae-Young Lee (dylee@khu.ac.kr)

Research Overview
Our research focuses on Digital Image Processing and Computer Network in the newest field of intensive industrial society. 1) As the digital era keenly needs copyright protection, we are developing Watermarking method. 2) We are also developing security and intrusion detection systems on the Internet and other networks. 3) To meet the demands of the wireless Internet era, we are developing Mobile IP, Wireless Lan, and Wireless TCP that are at the core of wireless communication. 4) Our research also includes Network Traffic Measurement.

Ongoing Projects
- Development of management system for protection of text database
- Development of implement of policy based security management in active network

Fiber Optics Laboratory
URL: http://web.khu.ac.kr/~yhyh
Director: Professor, Yun-Hae Yeh (yhyh@khu.ac.kr)

Research Overview
All the research efforts are focused on fiber optic sensors, fiberoptic telecommunication components and subsystems. In the telecommunication area, the tunable fiberoptic filter, which plays a key role in the DWDM technology, and subsystems for optical channel monitoring are the main focus. Fiber optic sensors, which are believed to be the ideal transducers for civil structural monitoring and military applications, are the other high priority research of our laboratory. Current projects in fiber optic sensors aim at the implementation of the sensor system for temperature, underwater acoustic signal, pressure, vibration, strain, and others in the multiplexed configurations. This research requires in-depth knowledge in fiber optics, electronic hardware design including ASICs and software for control programs.

Ongoing Projects
- Optical channel monitoring
- Acoustic sensor array for underwater acoustic signal measurement
- White light interferometry

Semiconductor & Quantum Electronic Laboratory
URL: http://web.khu.ac.kr/~kschung
Director: Professor, Kwan-Soo Chung (kschung@khu.ac.kr)

Research Overview
We study many kinds of semiconductor devices. Especially our research is focused on materials for semiconductors. Our laboratory developed several devices which were fabricated by using different and unordinary materials. Furthermore, we have developed new technology for fabrication. We focus on developing two types of semiconductor devices: The display device and the memory device. Our display devices have sufficient technology to replace the conventional TFT (thin film transistor). The LCD device and memory devices also have much potential for future applications. These devices are the solution to the problems of current models.

Ongoing Projects
- Development of Organic TFT LCD device
- Development of GaN memory device
- Development of Electron emitter device for display

Automatic Control Laboratory
Director: Professor, Chong-Kug Park (ckpark@khu.ac.kr)

Research Overview
In the Automatic Control Laboratory, we are actively working on the following research projects: 1) the position and force control of manipulators and the motion control of WMR. We are using conventional control techniques and also intelligent control algorithms such as PID, optimal, adaptive, fuzzy-neural network, genetic, and immune system algorithm; 2) the navigation and guidance system for robots and vehicles; 3) develop sensor fusion techniques for robots. The sensor fusion system includes sonic sensors, laser sensors, IMU sensors, and GPS. Recently, we started...
working on the development of embedded web server for the remote control and monitoring of systems via the Internet. Possible applications may include remote machine diagnosis and home automation. We are also engaged in the development of SMT inspection systems using vision and laser distance sensors.

**Ongoing Projects**
- Control algorithm using immune system
- Vehicle navigation system using IMU
- Solder paste inspection system
- Remote monitoring and diagnosis technique of laser machine using embedded mini-web server

**Image Communication Laboratory**
URL: http://web.khu.ac.kr/~imgcom
Director: Assistant Professor, Won-Ha Kim (wonha@khu.ac.kr)

**Research Overview**
Our laboratory develops 1) human preceptual oriented video codec, and 2) automatic systems using video signal, and designs 3) the methodology of integrating vision and touch sense. Our video codec will improve more than 20% in coding efficiency compared to the conventional codec. The developing automatic system will invent innovative human assistant equipments applicable to automobile, video surveillance and etc. We also believe that the integration of vision and touch sensation will set a milestone for recoding and transmitting human sensations.

Our researches have been in joint cooperation with and sponsored by government institutes, national laboratories and private companies such as Korea Research Foundation (KRF), Korea Electronics Technology Institute (KETI) and Hyundai Mobis. In addition, we maintain close research collaboration with Prof. Truong Nguyen group in University of California-San Diego.

**Ongoing Projects**
- Development of video visibility enhancement algorithms.
- Development of human perceptual oriented video coding
- Development of meta data for describing integration of vision and touch sense.
- Development of motion analysis model in video sequence

**Digital Communications Laboratory**
Director: Associate Professor, Yun-Hee Kim (yheekim@khu.ac.kr)

**Research Overview**
Our research focuses on the development of digital communication technologies for future mobile/ wireless communication systems. Specific research areas include: 1) Design of orthogonal frequency division multiplexing (OFDM) platforms for efficient broadband transmission, 2) Multiple input multiple output (MIMO) transmission via multiple antenna coding and signal processing for spectral efficiency, and 3) Cross-layer design and cooperative communications based on MIMO/OFDM. These techniques are combined and optimized to increase the channel capacity or improve the quality of video services in mobile cellular systems or ad-hoc networks.

**Ongoing Projects**
- Multiuser MIMO-OFDM two-way relaying technologies for pervasive wireless access
- Development of a low power cognitive radio MODEM supporting multi-channel and MIMO
- Development of physical layer for wireless body area networks
- Cross-layer design of the application layer and physical layer for MIMO-OFDM systems

**Integrated Circuits Interface Laboratory**
URL: http://icil.khu.ac.kr
Director: Assistant Professor, Sang-Hoon Hong (daniel@khu.ac.kr)

**Research Overview**
Our research mainly focuses on developing novel bio-inspired integrated circuits that enable power efficiencies and processing performances that surpasses current circuit designs. Each of these circuits are then demonstrated in aiding humans for more safer and comfortable environment. In order to formulate the bio-inspired circuit based system, the research involves algorithm development, circuit design, board design, and test & measurements of the fabricated chip.
Ongoing Projects
- Brain to computer interface
- Augmented reality
- Hardware search engine
- 3D graphics engine

Advanced Nano Semiconductor Device Lab
URL: http://nanosemi.khu.ac.kr
Director: Professor, Jin-Hong Park (jhpark9@khu.ac.kr)

Research Overview
As the minimum feature size of Si CMOS devices shrinks to the nanometer regime, device behavior becomes increasingly complex, due to new physical phenomena at short dimensions and fundamental limitations in material properties are reached. As a result, it is predicted that the scaling speed will become slower than Moore’s law in future technology nodes. Prof. Park has been working on new device materials (Graphene/Ge/III-V) to replace the Si CMOS, monolithic 3D-ICs with multiple layers of heterogeneous devices (Si/Ge/InGaAs MOSFETs and Organic Flash Memory), and environmentally benign semiconductor manufacturing technology.

Ongoing Projects
- Development of silicon/germanium/InGaAs MOSFETs for onolithic 3D-ICs
- Development of organic thin film transistor and flash memory
- Development of Graphene transistor
- Development of multi-junction solar cell

Graduate School

Department of Radio Engineering

Tel: +82 31 201 2589  Fax: +82 31 206 2589  E-mail: radio_grad@khu.ac.kr  URL: http://radio.khu.ac.kr

Degrees offered are Master of Science and Ph.D.
Specialized facilities include Radio Communication System Lab, Communication Lab, DSP Lab, RF Measurement Lab, RF Engineering Lab, Radio Simulation Lab, and Microwave Anechoic Chamber.
Areas of research are Radio Communication Systems and Radio Engineering.

Degree Requirements
- Master of Science: Minimum of 24 hours of class course work, 6 hours of research, and 1 conference paper as well as two internal open presentations
- Ph.D.: Minimum of 36 hours of class course work and 6 hours of research. Minimum of two 1st class national journal papers or 1 SCI paper and two internal open presentations

Courses
Radio Communication Area

Radio Engineering Area

Faculty
Young-Ohk Chin, Ph.D. Yonsei University, 1981, Professor, Telecommunication Engineering, yochin@khu.ac.kr
Ihn-Seok Kim, Ph.D. University of Ottawa, 1991, Professor, Microwave Engineering, ihnkim@khu.ac.kr
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Bom-Son Lee, Ph.D. University of Nebraska, 1995, Professor, Antenna & Propagation, bomson@khu.ac.kr
Chang-Woo Kim, Ph.D. Shizuoka University, 1992, Associate Professor, RFIC, cwkim@khu.ac.kr
Won Sohn, Ph.D. Texas A&M University, 1993, Associate Professor, Digital Broadcasting, wsohn@khu.ac.kr
Een-Kee Hong, Ph.D. Yonsei University, 1995, Associate Professor, Mobile Communications, ekhong@khu.ac.kr
Ju-Bin Song, Ph.D. University of London, 2001, Associate Professor, Telecommunications, jsong@khu.ac.kr
Jeong-Geun Kim, Ph.D. University of Arizona, 2000, Associate Professor, Communication Networks, jg_kim@khu.ac.kr
Kye-San Lee, Ph.D. Keio University, 2002, Associate Professor, Advanced Wireless Communications, kyesan@khu.ac.kr
Jong-Wook Lee, Ph.D. Purdue University, 2003, Assistant Professor, RF & Microwave Device, jwlee@khu.ac.kr
Hyun-Dong Shin, Ph.D. Seoul National University, 2004, Assistant Professor, Wireless Communications and Information Theory, hshin@khu.ac.kr

Laboratories
- Recognition Telecommunication System Engineering Laboratory
  Director: Professor, Young-Ohk Chin (yochin@khu.ac.kr)
  Research Overview
  The Recognition Telecommunication System Engineering LAB has research on Infra-Structure and Sufra-Structure for Tele-Communication Service System Design based on Signal analysis & processing, and Tele-Communication theory. The field of research includes next generation mobile communication system, HAPS (High Altitude Platform Station) and Recognition Information & Telecommunication System. And our LAB is going to research the 3rd Radio Frequency Communication System as a new field of study about HAPS.
  Ongoing Projects
  - Platform design and link analysis about link & power budget platform keeping position method operation system design
  - Information and tele-communication standardization of South and North Korea

Electromagnetic Wave Engineering Laboratory
Director: Professor, Ihn-Seok Kim (ihnkim@khu.ac.kr)
Research Overview
Our research goals are directed toward circuit development of signal generation such as oscillator circuits and UWB (Ultra Wide Band) impulse generators, modeling new resonators and discontinuities for microwave and mm-wave guided wave structures and their applications to oscillators and filters, development of standard measurement method for shielding effectiveness and commercial application of radar technique.
Research Overview

The major areas of research include:
Algorithm development, simulation and theoretical analysis of mobile communication systems such as WCDMA, OFDM, UWB and beyond 3GSoftware defined radio technology (SDR) development for WCDMA, OFDM and beyond 3G DSP hardware and software development of WCDMA and OFDM and MC-CDMA modem smart antenna, beam-forming and direction finding cross-layer optimization technology

Ongoing Research Projects
- Development of SDR-based system technology for next generation dynamic wireless
- Network design of SDR-based array signal processing system
- Development of effective channel estimation algorithm for OFDM system
- Survey of SDR technology for standardization

Wireless Technology Laboratory
Director: Professor, Bom-Son Lee (bomson@khu.ac.kr)

Research Overview
Our research at the Wireless Technology Laboratory focuses on the development of various kinds of antenna, some microwave passive devices, and radio-wave propagation modeling that facilitates the realization of wireless communication systems. Through our research, we try to create a new type of antenna and passive structures that will enable the continued evolution of wireless communication services such as IMT-2000 and Fourth Generation.

Ongoing Projects
- Radio propagation characteristics in short path communication services
- Study of optimum antenna patterns for satellite launcher
- Development of waveguide slot array antenna for SAR (Synthetic Aperture Radar)
- Study of microwave tomography
- Development of ultra-wide-band PCB-integrated antenna for wireless communication

RFIC/MMIC Laboratory
Director: Professor, Chang-Woo Kim (cwkim@khu.ac.kr)

Research Overview
Our research focuses on three categories of research:
- Radio frequency integrated circuit/monolithic microwave integrated circuit design for wireless communication/broadcasting systems
- Design and modeling for microwave/millimeter-wave semiconductor devices
- RF measurement and testbed development of wireless communication modules

By nature, the work is multi-disciplinary and brings together aspects of semiconductor device and IC design, RF circuit design, and communication system design in order to design and develop:
- optimal circuits that provide maximal performance with minimal complexity;
- novel RFIC architectures and MMICs that will enable efficient realization of hardware intensive wireless communication systems;
- high performance prototype modules in order to validate and quantify the performance of wireless systems under actual conditions.

Our research group is highly dynamic and consists of many graduate students active in the fields of microwave/millimeter-wave device/circuit and wireless communication/broadcasting circuit integration.

Ongoing Projects
- Development of SiGe radio transceiver modules for ubiquitous applications
- Development of multiband tunable power amplifier modules
- Microwave tomography system
Development of RF reader system for RFID applications  
RF-MEMS switches for high power applications

**Multimedia Transmission Laboratory**  
Director: Professor, Won Sohn (wsohn@khu.ac.kr)  

**Research Overview**  
Our research focuses on the study of transmission technologies in the area of digital broadcasting. The detailed technologies include source coding, channel coding, modulation, multiple access, through mobile, terrestrial, satellite, and cable media. The related services include digital broadcasting, T-commerce and multimedia communication. The converging technology of broadcasting and communication is also studied in the context of broadcasting.

**Ongoing Projects**  
- Channel estimation for the improvement of mobile receiving performance for OFDM systems  
- Joint source/channel coding using hierarchical video coding in satellite broadcasting system  
- Converging technology DTV with mobile communications  
- DTV system with return channel (T-commerce)

**Mobile Communications Laboratory**  
Director: Professor, Een-Kee Hong (ekhong@khu.ac.kr)

**Research Overview**  
Our research focuses on the Layer 1 issues related to mobile communications such as modulation, channel coding, spread spectrum, and multi-carrier CDMA. We extend our research area to layer 2 and 3 and cross layer issues of mobile communications. In particular, we have developed the core technologies for next generation mobile communications as well as for current mobile communication systems (cdmaOne, IMT-2000, wireless LAN).

**Ongoing Projects**  
- Development of efficient multi-code transmission techniques for high data rate services  
- A study on the detection algorithm for unknown wireless signals  
- Development of interference cancellation for turbo coded CDMA systems  
- Optimization engineering for the wireless portable Internet service  
- A study on the system capacity of IMT-2000 system and guard band issue  
- Development of joint detection algorithm for TD-CDMA system

**Telecommunications Laboratory**  
Director: Professor, Ju-Bin Song (jsong@khu.ac.kr)

**Research Overview**  
Our research at the Telecommunications Laboratory focuses on Broadband near Field Wireless Communications, Telecommunications such as WiBro Evolution and 4G mobile, Cognitive Radio (CR) Communications including IPV6 Network Applications, ad Broadband Convergence Network Applications. The research topics are related to future broadband wireless and mobile communications.

**Ongoing Research**  
- Passive integrated picocell for broadband mobile communications  
- WiBro evolution  
- ACPR of advanced OFDM systems  
- IPV6 based convergence networks  
- Performance analysis of convergence networks and links  
- Cognitive radio for WiBro evolution and IPV6 networks

**Multiservice Networking Laboratory**  
URL: http://web.khu.ac.kr/~jgkim  
Director: Professor, Jeong-Geun Kim (jg_kim@khu.ac.kr)

**Research Overview**  
Our laboratory has been actively involved in highly recognized research activities targeting at solving the cutting-edge networking problems. These include design and analysis of next-generation multiservice networks, integrated wired/wireless multimedia networks, performance evaluation of communication systems. Our research efforts toward positioning ourselves as a key player in the networking area will continue.
Ongoing Projects
• Performance modeling and evaluation for communication networks
• Queuing model for QoS guarantees in wireless networks
• Block-level channel abstraction for packet-level performance of wireless links
• Parameters adaptation and matching in wireless links for end-to-end QoS guarantees in wireless Internet

Advanced Wireless Communications Laboratory
URL: http://awclab.khu.ac.kr/
Director: Professor, Kye-San Lee (kyesan@khu.ac.kr)
Research Overview
Mobile communication systems are required to be sufficiently flexible to support a variety of multimedia services such as video, image, picture and data services with high quality. The next generation mobile communication requires high data rate transmission with high frequency utilization efficiency based on orthogonal frequency division multiplexing (OFDM). Our Laboratory has done researched on 4th Generation systems, OFDMA using frequency hopping, MC_CDMA, MC-DS/COMA, MIMO system, Adaptive array antenna, Ad-hoc system.

RF/Microwave Device and Circuit Laboratory
URL: http://web.khu.ac.kr/~jwlee
Director: Professor, Jong-Wook Lee (jwlee@khu.ac.kr)
Research Overview
Research interests of our laboratory include development of new RF/microwave devices and circuits based on wide-bandgap GaN and RF CMOS technologies. Extensive effort is directed toward the development of RF/microwave ICs designed using CAD tools. Ultimate goal of our work is realizing wireless single-on-chip (SoC) CAD/design methodologies integrating RF functionality.

Ongoing Projects
• Design, fabrication, and characterization of III-Nitride LED, FETs, and MMICs
• Development of low power, smart RFID tag using CMOS technology for wireless sensor networks
• CMOS wireless communication RF front-end, microwave-millimeter wave integrated circuits (MMICs)

Wireless Communication Laboratory
Director: Professor, Hyun-Dong Shin (hshin@khu.ac.kr)
Research Overview
Our laboratory formulates, investigates, and develops solutions to a broad spectrum of problems of fundamental interests involving the design and analysis of wireless communication systems and networks. Current research interests include wireless communications, cooperative/collaborative communication systems and networks, and applications of mathematical and statistical theories to the design and analysis of wireless.

Graduate School

Department of Biomedical Engineering
Tel : +82 31 201 2943  Fax : +82 31 204 8115  E-mail : omse@khu.ac.kr  URL : http://web.khu.ac.kr/~bme

The Department of Biomedical Engineering (BME), Graduate School of Kyung Hee University, took its first step in March, 2002, and currently offers both the Master’s program and the Ph.D. program. In the department, research has been performed in the areas of biomedical instrumentation, biomedical informatics, medical imaging, and rehabilitation.
engineering. Emphasis is also given to education of graduate students in addition to diversified extracurricular activities. Students learn basic principles and acquire hands-on experience involved in the application of engineering to medicine. The major topics include medical instrumentation (including diagnostic and therapeutic devices), biological signal processing, medical imaging systems, computer applications in medicine, medical informatics, tele-medicine, prosthetics and orthoses, bio-sensors, bio-materials, and meridian and acupuncture science.

Applicants are expected to have in-depth knowledge and experience in related engineering and natural science. High preference is given to applicants with strong motivation toward advanced academic training.

Degree Requirements

- At least 24 units of graduate level BME courses are required for the master’s degree, and 60 units for the doctoral degree including units completed in the master’s courses.
- Students must pass a qualifying examination.
- Students must complete all requirements, such as publication, presentation, and the dissertation, as determined by the thesis committee.
- Students should work with a faculty member in the department as advisor.

Courses

Engineering Analysis, Advanced Digital Signal Processing, Medical Device Design, System Physiology, Bioelectricity, Diagnosis System of Oriental Medicine, Acupuncture Research, Microprocessor Based Medical Instrumentation, Unconstrained Biomedical Instrumentation, Medical Imaging System, Computer-Aided Diagnosis, Knowledge Engineering in Traditional Chinese Medicine, Rehabilitation Engineering, Advanced Analysis of Herbal Materials, etc.

Faculty

Gon Khang, Ph.D. Stanford University, 1988, Professor, Mechanical Engineering, gkhang@khu.ac.kr
Senug-Hun Park, Ph.D. University of Florida, 1990, Professor, Electrical Engineering, parksh@khu.ac.kr
Eung-Je Woo, Ph.D. University of Wisconsin-Madison, 1990, Professor, Electrical and Computer Engineering, ejwoo@khu.ac.kr
Soo-Yeol Lee, Ph.D. KAIST, 1989, Professor, Electronic Engineering, sylee01@khu.ac.kr
Min-Hyoung Cho, Ph.D. KAIST, 1990, Professor, Electronic Engineering, mhcho@khu.ac.kr
Seung-Moo Han, Ph.D. State University of New York at Buffalo, 1996, Professor, Mechanical Engineering, smhan@khu.ac.kr
Kyung-Mo Park, Ph.D., O.M.D. Kyung Hee University, 1999, Associate Professor, Oriental Medicine, saenim@khu.ac.kr
Tae-Seong Kim, Ph.D. University of Southern California, 1999, Associate Professor, Biomedical Engineering, tskim@khu.ac.kr

Laboratories

Rehabilitation Engineering Laboratory

Director: Professor, Gon Khang (gkhang@khu.ac.kr)

Research Overview

The primary research objective in the rehabilitation engineering laboratory (REL) is to recover mobility to physically handicapped people. Emphasis is given to two topics: (1) functional electrical stimulation (FES) and (2) customized environment design. A generic transcutaneous FES system was developed and applied to many different clinical experiments: electrical exercise for paralyzed muscles, paraplegic/hemiplegic standing/walking, quadriplegic hand grasp, etc. Also, basic research is performed in the area of electro-physiology, e.g., electrical characteristics of living tissues including the skin and the muscles. REL recently started to investigate how to provide physically handicapped people with the residential or office environment that is optimal to each user and his/her family or office mates. This research was motivated by the fact that every disability is different from individual to individual, and, therefore, each disabled person needs his/her own environment.
Ongoing Projects
- Functional electrical stimulation for mobility recovery to plegic people
- Customized environment design for physically handicapped people
- Design and application of prostheses and orthoses

Medical Information System Laboratory
Director: Professor, Seoung-Hun Park (parksh@khu.ac.kr)

Research Overview
Our major research interest is to produce medical information and image processing by applying principles of biomedical engineering. In particular, our lab is engaged in understanding biological parameters of the body, developing various measurement equipments using pc-based and embedded-based systems in other to measure various bio-signals, and providing to inform information of the body using software programming.

Ongoing Projects
- Development of health improvement management system
- Development of information and intelligent health system
- Development of Biofeedback Control Module using embedded system
- Development of bio-signal acquisition system using SOC (system on a chip) technology
- A study on pc-based and Linux-based embedded system
- A study on framework for XML-based knowledge management

IIRC (Impedance Imaging Research Center)
URL: http://iirc.khu.ac.kr
Director: Professor, Eung-Je Woo (ejwoo@khu.ac.kr)

Research Overview
The Impedance Imaging Research Center (IIRC) was founded in July, 2002, supported by the Ministry of Science and Technology (MOST), Korea Science and Engineering Foundation (KOSEF), and Kyung Hee University (KHU). With its main office and laboratories located at KHU, there are 17 faculty members joining the center from 5 universities in Korea. Since the nature of impedance imaging research is interdisciplinary, specialties of members include biomedical engineering (especially, medical imaging and instrumentation), microwave engineering, optical electronics, mathematics, numerical analysis, and medical sciences.

The primary research goal of IIRC is to visualize electrical and optical properties of biological tissues.

Ongoing Projects
- EIT (Electrical Impedance Tomography)
- MREIT (Magnetic Resonance Electrical Impedance Tomography)

MISL (Medical Imaging System Lab)
URL: http://web.khu.ac.kr/~bmeserver/
Director: Professor, Soo-Yeol Lee (sylee01@khu.ac.kr)
Professor, Min-Hyoung Cho (mhcho@khu.ac.kr)

Research Overview
Our major research interests are functional MRI, molecular and cellular MRI, bio micro-CT, and medical image processing techniques. Combining fMRI and EEG, we try to enhance spatiotemporal resolution of functional brain imaging. To combine fMRI and EEG, we must tackle many technical barriers including noise removal from EEG signals acquired inside MRI, fMRI-constrained EEG source localization and co-registration between fMRI and EEG. To verify efficacy of stem cell therapy, we have been developing stem cell tracking techniques using MRI. Labeling stem cells with SPIO nano-particles, we try to observe migration of the injected stem cells inside living animals.
We have developed a micro-CT using a micro-focus X-ray tube and a flat-panel X-ray detector. The micro-CT has the unique zoom-in imaging feature with which high resolution imaging of a small organ inside a living animal can be performed. With the zoom-in micro-CT, we have been investigating osteoporosis developments in the living animal models.

Ongoing Projects
- Simultaneous fMRI-EEG for functional brain imaging
- Molecular and cellular magnetic resonance imaging
• Application of magnetic resonance electrical impedance tomography (MREIT)
• New MRI techniques
• Micro computed tomography
• Application of micro-CT to osteoporosis studies

Biomechanical Engineering Laboratory
Director: Professor, Seung-Moo Han (smhan@khu.ac.kr)
Research Overview
The research of the Biomechanical Engineering Lab is mainly directed at the mechanical engineering aspects related to the treatment of impairments of the musculoskeletal system. This includes both biomechanical analysis and modeling as well as the design and development of constructions to replace, support or correct the skeletal system. From a medical point of view the research topics are related to the areas orthopedics and rehabilitation. The basic research question is to gain insight into the coordination and control of human movement. The results are applied in the development of mobility aids with improved controllability, stability and energy. Recent developments also include the ultrasound bone densitometer, growth-plate imaging system and non-invasive bio-injector.

Ongoing Projects
• Patient customized ultrasound treatment system for arthritic patients
• Computer simulating system for total hip/knee replacements
• Development of ultrasound and X-ray imaging systems for medical diagnosis and monitoring of various diseases

Knowledge Engineering in Oriental Medicine Laboratory
URL: http://keom.khu.ac.kr
Director: Professor, Kyung-Mo Park (saenim@khu.ac.kr)
Research Overview
Our research focus is on Medical Knowledge Representation which is implemented by ontology technology. We are involved in CT2M (Clinical Terminology of Traditional Medicine) which was initiated by WHO.

Ongoing Projects & Research
• International collaboration for Clinical Terminology of Traditional Medicine (CT2M)
• Qualitative reasoning in Oriental medical diagnosis

Acupuncture Physiology and Biosignal Processing
URL: http://keom.khu.ac.kr
Director: Professor, Kyung-Mo Park (saenim@khu.ac.kr)
Research Overview
Our research focus is on Acupuncture Research and Bio-signal Processing. We are investigating the acupuncture modulation of autonomic nervous system by various measuring modalities including pupilography, fMRI, ECG, etc.

Ongoing Projects & Research
• Acupuncture modulation of autonomic nervous system with fMRI and pupil
• Laterality of acupuncture effect
• Development of digital tongue diagnosis system and pupil image acquisition system including image processing and its clinical application

Bio-Imaging Laboratory
URL: http://bioimage.khu.ac.kr/
Director: Professor, Tae-Seong Kim (tskim@khu.ac.kr)
Research Overview
Major research activities of our laboratory focus on the development of innovative methodologies for functional neuro-imaging, bio-imaging, molecular imaging, neural engineering, and neural signal and image processing. Specific topics include functional MRI, EEG, MEG, multi-electrode array, multi-model signal and image analysis and processing, independent component analysis, and pattern classification.

Ongoing Projects
• Functional magnetic resonance imaging (fMRI)
• E/MEG source imaging using finite element method (FEM)
• Multi-electrode array (MEA) neural signal processing
• Neural engineering
• Bio-signal and -image processing and analysis
• Blind source separation using independent component analysis
• Multi-modal image registration and segmentation
• Bio-signal recognition and classification

Biophotonics Laboratory
URL: http://bplab.khu.ac.kr/
Director: Professor, Kyung-Min Byun (kmbyun@khu.ac.kr)

Research Overview
Main research activities are theoretical and experimental studies on highly sensitive surface plasmon resonance (SPR) biosensors with metallic nanostructures. In addition, current research interests are focused on biomedical applications of optics and plasmonics including avian influenza virus (AIV) detection, biomolecular imaging, neural imaging and engineering, and microarray-based SPR imaging systems.

Ongoing Projects
• Highly sensitive surface plasmon resonance (SPR) biosensors using metallic nanostructures
• Biomolecular detection and imaging system
• Optical detection of neural activities
• Development of multi-channel SPR imaging system

Display Material Engineering is a novel field of graduate study, which is essential for the emerging display industry. The display industry is one of the national growth driving industries and makes great contribution to the national economy and industry. Display Material Engineering major is a fusion technology, which covers the various fields of industries such as chemistry, material science, physics, optics, and electronic engineering. Research has been performed in the areas of developing the various materials, components and device of display application. It is a quite new department but has very high competition power over the other fields due to the industrial cooperation. It has 5 faculty members, 10 master students and 1 Ph.D. student now, but we are expecting rapid growth. The department covers the research field of forefront of industry. Display Material Engineering is an exciting, challenging, and growing profession, operating at the leading edge of display technology.

Degree Requirements
• At least 24 units of graduate level credit in Display Material Engineering courses are required for the master’s degree, and 60 units for the doctoral degree including units completed in the master’s courses.
• Students must pass a qualifying examination.
• Students must complete all requirements, such as publication, presentation, and dissertation, as determined by the
thesis committee.

- Students should work with a faculty member in the department as a supervisor.

Courses


Faculty

Ki-Gook Song, Ph.D. University of Michigan, 1988, Professor, Macromolecular Sci. & Eng., ksong@khu.ac.kr
Sung-Soo Kim, Ph.D. University of Texas at Austin, 1990, Professor, Chemical Engineering, sungkim@khu.ac.kr
Hong-Doo Kim, Ph.D. University of Wisconsin, 1987, Professor, Polymer Chemistry, hdkim@khu.ac.kr
Sang-Hyon Paek, Ph.D. Columbia University, 1998, Professor, Polymer Science, shpaek@khu.ac.kr
Young-Chul Kim, Ph.D. KAIST, 1991, Professor, Organic/Polymer Electronic & Display Materials, kimyc@khu.ac.kr
Suk-Won Choi, Ph.D. Tokyo Institute of Technology, 2007, Assistant Professor, Organic and Polymeric Materials, schoi@khu.ac.kr
Han-Ki Kim, Ph.D. GIST, 2003, Assistant Professor, Thin Film Technologies, Flexible/Oxide Electronics, imdlhkkim@khu.ac.kr

Laboratories

- Polymer Physics Laboratory
  URL: http://web.khu.ac.kr/~polymer/
  Director: Professor, Ki-Gook Song (ksong@khu.ac.kr)
  Materials Research Center for Information Display

  Research Overview
  - FTIR and Raman spectroscopic studies of polymer structure and orientations
  - Polymer applications in LCD components and materials
  - Photo-reactive liquid crystal molecules for optical films
  - Polymeric materials studies for organic thin film transistors

  Ongoing Projects
  - Development of organic materials for display applications
  - Studies of cholesteric liquid crystals for reflective polarizers
  - Studies of photo-crosslinkable liquid crystals for optical film applications

- Polymeric Materials Laboratory
  URL: http://gaya.khu.ac.kr/poly
  Director: Professor, Sung-Soo Kim (sungkim@khu.ac.kr)
  Regional Innovation Center-Components and Materials for Information Display

  Research Overview
  Preparation of polymeric display materials with targeted properties to meet industrial demands. Synthesis and characterization of materials for electronic paper, optical films and flexible materials are in pursuit. Synthesis and modification of advanced polymeric composite materials for use in information display technology of semiconductor industry.

  Ongoing Projects
  - Development of electronic paper
  - Development of organic-inorganic composite materials
  - Development of plastic substrate for flexible display
  - Development of integrated flexible display device

- Polymer Chemistry Laboratory
  URL: http://gaya.khu.ac.kr/polymerlab/
Director: Professor, Hong-Doo Kim (hdkim@khu.ac.kr)

Research Overview
The design and synthesis of various polymer-related materials for IT applications such as organic thin film transistors and organic light emitting diodes are our research interests. Polymer characterization using various scattering techniques is one of the topics of our research group.

Ongoing Projects
- Development of gate insulator materials for OTFT
- Development of antireflective coating on polymer substrates
- Study of passivation layer for OLED
- Study of Graphene as transparent electrode materials
- Supercritical CO2 applications for IT material process

Soft Matter Physics Laboratory
Director: Professor, Suk-Won Choi (schoi@khu.ac.kr)

Research Overview
Soft Matter Physics Lab works on organic soft materials (liquid crystal, polymer, gel, etc.) from device viewpoints. We are particularly interested in liquid crystalline materials for electro-optical devices, photomechanical, and micro-optical applications, by taking advantage of their liquid crystallinity. We focus on fundamental understanding of the interaction between light and soft materials from the viewpoint of innovative photonic applications, and create electro-or photo-functional materials with precisely controlled molecular alignment.

Ongoing Projects
- A study of advanced liquid crystalline materials for displays
- A study of flexible display using LC materials
- A study of retardation films for 3-dimensional LCD
- A study of optical films for LCD

Information Materials and Device Laboratory (IMDL)
URL: http://imdl.khu.ac.kr
Director: Professor, Han-Ki Kim (imdlhkkim@khu.ac.kr)

Research Overview
IMDL focuses on the research of flat panel displays and energy related materials and devices. Specially, organic light emitting diode (OLEDs), organic and oxide TFT, flexible optoelectronics and photovoltaics as well as transparent conducting oxide for FPD and solar cells are of great interest. In addition, our group have been investigated the plasma based thin film technologies such as PVD, FTS, CVD, Roll-to-Roll sputtering, and plasma treatment for semiconductors and flat panel displays with major FPD companies in Korea.

Ongoing Projects
- Development of high performance Roll-to-Roll sputtering and facing target sputtering system and process for flexible optoelectronics
- Development of new transparent conducting oxide for organic solar cells and dye sensitized solar cells (DSSCs)
- Oxide/metal/Oxide multilayer electrode for flexible OLED and OPVs
- Thin film passivation for OLEDs and OPVs
- New facing target sputtering system for OLEDs and OPVs
The master of arts (M.A.), master of science (M.S.), and doctor of philosophy (Ph.D.) degrees in Physical Education are available through the Department of Physical Education. Our studies emphasize the academic and technical knowledge necessary to conduct sports and recreation programs in public or private agencies. We are also concerned both with understanding the role of movement in the lives of people, and using that understanding to improve the quality of human life. Our graduate program has added new knowledge to physical education and human movement fields. Students prepare for careers in research on human movement phenomena or in advanced teaching, coaching, athletic training, and fitness and sport management.

Degree Requirements

- At least 24 credits of graduate level in Physical Education courses are required for the master’s degree; 60 credits of graduate level courses are required for the doctoral degree (including 24 credits completed in the master’s courses).
- All students must pass a qualifying examination after the third semester.
- All students must fulfill needed requirements by the Department of Physical Education.

Courses

- Studies in the Philosophy of Physical Education
- Studies in the Cultural History of Physical Education
- Studies in Teaching Skill of Physical Education
- Physical Education Seminar
- Studies in the Psychology of Physical Education
- Studies in Physical Education
- Sports Social Welfare
- Sports Law
- Studies in the Adapted Physical Education
- Studies in the Sociology of Physical Education
- Studies in Sports Administration and Management
- Sports Marketing
- Studies in Sports Policy
- Studies in Exercise Prescription
- Studies in Dietetics
- Laboratory Experiment in Physical Education
- Studies in Measurement and Evaluation of Physical Education
- Studies in Sports Medicine
- Studies in Health Education
- Seminar of Physical Education Sciences
- Sports Training Method of Advanced Sports Skill
- Studies in Sports Biochemistry
- Thesis Research I, II, III

Faculty

- Dong-Won Kang, Ph.D. Myongji University, 1992, Professor, Sport History, dwkang@khu.ac.kr
- Hyung-Don Kim, Ph.D. Oregon State University, 1991, Professor, Measurement & Evaluation in P.E, hkim@khu.ac.kr
- Yong-Kyu Kim, Ph.D. Kyung Hee University, 1997, Associate Professor, Principles of P.E, kyk@khu.ac.kr
- Eun-Chang Kwak, Ph.D. University of South Carolina, 1993, Associate Professor, Teaching Methods in P.E, eckwak@khu.ac.kr
- Kwang-Lyeong Han, Ph.D. Korea National University of Physical Education, 2001, Full-time Lecturer, Sport Sociology, foreverKHU@yahoo.co.kr
- Du-Ohk Sohn, M.A. Kyung Hee University, 1978, Professor, Sport Leadership Theory, doson@khu.ac.kr
- Woo-Sang Yoon, M.A. Kyung Hee University, 1976, Professor, Scientific Basis of Training, wyun@khu.ac.kr
- Jai-Choong Yoo, Ph.D. Sungkyunkwan University, 2000, Professor, Sport Sociology, choong@khu.ac.kr
- Byung-Gwan Cheon, Ph.D. Hanyang University, 1998, Professor, Sport Psychology, Judo, bkjeon@khu.ac.kr
Laboratories

Exercise Nutrition and Biochemistry Laboratory
Director: Professor, Hyon Park (hpark@khu.ac.kr)

Research Overview
General biochemical analyses of enzyme activity, muscle staining, animal model care, measuring the level of metabolic substances, develop new nutritional ergogenic aids are the main works of this laboratory. Spectrophotometer, homogenizer, autoclave machine, rodent treadmill, and deep freeze are the major equipment used for studying biochemical and nutritional mechanisms of muscular adaptation to various patterns of exercise.

Sports Motion Analysis Laboratory.
Director: Professor, Young-Jin Park (yjpark@khu.ac.kr)
Research Overview
The research of Sports Motion Analysis Lab focuses on the cinematographical analysis of various sport techniques, especially golf techniques. Our research also includes the development of tools for the analysis of the golf swing.

Exercise Anatomy and Physiology Laboratory
Director: Professor, Hyung-Don Kim (hkim@khu.ac.kr)
Professor, Jong-Kook Song (jksong@khu.ac.kr)

Research Overview
The Exercise Anatomy and Physiology Laboratory is a modern exercise physiology research facility housed on the third floor of the College of Physical Education Building. The laboratory provides a venue for student and faculty research and is equipped with two stations for testing whole body metabolism and stress testing, two sets of isokinetic contraction testing systems, bone density testing system, and various equipment related to exercise physiology.

Exercise Testing and Prescription Laboratory
Director: Professor, Ho-Sung Nho (nhohs@khu.ac.kr)

Research Overview
The Exercise Testing and Prescription Laboratory is a modern exercise testing and prescription facility housed in the basement of the College of Physical Education Building. The laboratory is equipped with a station for testing whole body metabolism and stress testing, and two sets of fitness testing systems. Combined with the anatomy & physiology laboratory and a recently constructed biochemistry laboratory, the labs provide the investigator with a wealth of potential research techniques. The Exercise Testing & Prescription Laboratory also houses a separate teaching laboratory for conducting laboratory.

Graduate School
Department of Ceramic Arts
Tel: +82 31 201 2637    Fax: +82 31 204 8127    E-mail: art2637@khu.ac.kr
URL: http://web.kyunghee.ac.kr/~gskh/enter/arts_cer.html

These days, the field of art is developing into various plastic arts influenced by modern science and civilization. To maximize the ability of creative power and to increase the power of expression, we study the story and the process of ceramic works by understanding widely varying styles and forms according to changing times and a comparative evaluation and co-existence of transmitted traditional ceramics, traditional ceramics and contemporary ceramics. The faculty of the Ceramic Arts Department also aims to enlarge the students’ ability to apply, as ceramists, techniques and qualifications, to interior design and space design by studying functional wares usable in daily life and the characteristic of ceramic arts to raise the standard for a better living environment. The mission of the Ceramic Arts Department is to foster ceramic artists who can transform beauty from personal emotion to the creative sense of beauty, and conventional visual order into an emotional order. To achieve this goal, we must let the students have a good understanding of ceramic plastic arts and the treatment process of inorganic materials which are the essential medium for ceramic culture and the realization of beauty built on the circumstance of the times and the trend of art.
Degree Requirements
• At least 24 course units of graduate level credit in Ceramic Arts courses are required for the master’s degree.
• Students must pass a qualifying examination.
• Students must fulfill presentation, defense, document and thesis exhibition requirements for the Ceramic Arts thesis committee.
• A thesis advisor can be any faculty member from the Ceramic Arts Department.

Courses
Ceramics Sculpture: ceramics with the environmental factor and theme
Functional Ceramics: functional wares with functionality and beauty
Theory of Ceramic Arts, Studies on Korean Ceramics, Studies on Contemporary, Ceramics Arts Technique, Studies on Industrial Ceramics, Studies on Ceramic Sculpture, Studies on Product Ceramics, Studies on Decoration Technique, Studies on Creative Ceramic Arts, Studies on Conceptual Ceramic Arts, Seminar

Faculty
Hun-Gook Lee, Ph.D. Hanyang University, 1995, Professor, Plastic Ceramics, hklee@khu.ac.kr
Jin Jang, M.F.A. Dama Arts University, Japan, 1986, Professor, Conceptual Ceramics, jinj@khu.ac.kr

Graduate School

Department of Industrial Visual Design

Tel : +82 31 201 3691    Fax : +82 31 204 8127    E-mail : design3691@khu.ac.kr

In an education-oriented industrialized society the formative art activities strive for the practical union of art and technology. As the industry becomes advanced and professionalized the societal criteria demands technology befitting the society along with a new formative system. With this point in mind, the Graduate School of Industrial Design aims to equip students of talent by employing the concepts of total design and fusion as their teaching objectives so that through a professional yet flexible curriculum and education philosophy, students may acquire a cosmopolitan outlook and develop the skills to become good designers.

The Graduate School of Industrial Design began receiving applications for admission in late 1998. By continuously researching new education systems and methods we try to foster our students with the effective design sense and ability to cope with the modern age. Our department is equipped with professional design fields such as Graphic Design, Industrial Design, Illustration, Environmental Design, Computer Graphics, etc. And as interchange among the fields are being engaged in smooth and harmonious manner, students are placed in favorable environments to equip themselves with diverse professional knowledge in accordance with the field of their interest. In addition, by newly establishing the Doctoral Degree Program starting from the 2001 school year, our Department seeks to actively correspond to the modern information-oriented era. Also by studying the designs and formative environments anticipated from the future industry, we researched and developed the education program accordingly. Our focus is on cultivating professionals equipped with creativity that society demands.
Degree Requirements

Every graduate student, both master’s and doctoral, enrolled in the Department of Industrial Design for Kyung Hee University Graduate School, must decide on a major field of study and a research topic and submit to professors within 1 month. Students may proceed with the research after the subject matter is decided with the adviser’s approval.

Master’s Course

Full-time students are required 24 credits to graduate.
A supplementary thesis for degree thesis submission should be collaborated with the guidance professor and published one or more times in professional scientific journals or journals of higher level than the University Journal.

Doctoral Course

Full-time students are required 36 credits to graduate.
A supplementary thesis for degree thesis submission should be collaborated with the guidance professor and published three or more times in professional scientific journals or journals of higher level than the National University Journal (2nd class).

Qualifying Exam for Thesis Submission

Both master’s and doctoral student must submit a research progress report to the head professor one semester prior to evaluation of the degree thesis. The head professor chairs a conference consisting of professors of the Department of Industrial Design, to decide whether or not the degree thesis shall be passed. Judgment should be made by the entire staff of professors in the department and professors of associated fields as they participate in the committee.

Master’s Course
1) The major subject for the exam consists of three major elective courses and a written exam.
2) Other regulations are subject to the regulations of the Doctoral Course Exam.

Doctoral Course
1) The major subject for the exam consists of three major elective courses and a written exam.
2) You may apply for an exam after selecting major elective courses and getting an approval from the head professor.
3) The questions for the Major Comprehensive Exams are set and evaluated by professors in charge.
4) Failed subjects among the exams may be substituted during the course of the exam.

Research Students

The above regulations apply to research students as well.

Supplementary Regulations

- These regulations are effective when approved at the faculty conference of the Department of Industrial Design.
- These regulations are subject to change upon the decision of the faculty conference of the Department of Industrial Design.

Courses

Master’s Course

Doctoral Course
Faculty
Hun-Hyuk Im, M.A. Chung-Ang University, 1985, Professor, Commercial Design, Typography, imhyo@khu.ac.kr
Myung-Sick Choi, M.D.E.S. Royal College of Art Industrial Design (RCA), 1986, Professor, Product Design, choims2020@hanmail.net
Kyu-Hyun Kim, M.I.D. Pratt Institute, 1988, Professor, Industrial/Environmental Design, gyukim@khu.ac.kr
Mee-Kyung Jang, Doctor of Design Seoul National University, 1987, Professor, Graphic Design/Character Design/Illustration, meekyungjang@hanmail.net
Kwang-Chib Chang, M.F.A. Tsukuba University, 1993, Professor, Exhibition/Environmental Design, kcc@khu.ac.kr
Sun-Chul Kim, M.I.D. Pratt Institute, 1999, Associate Professor, Industrial Design/Interactive Product Design, sunchulkim@khu.ac.kr
Soo-Jin Jung, B.A. Korea University Seoul, M.S Pratt Institute N.Y, 1996, Associate Professor, Graphic Design/Compilation Design/Website Design, soo@khu.ac.kr
Hyung-Suk Kim, B.F.A., M.F.A. Hongik University, 1995, Assistant Professor, Identity Design/Source of Creative/Graphic Design Process, designer@khu.ac.kr
Dong-Min Lee, M.F.A. Cranbrook Academy of Art, 2001, Assistant Professor, Industrial Design, mick@khu.ac.kr

Architecture is the field that directly relates to human daily life and deals with various studies regarding the built environment. Architecture is called a vessel which contains human life. With the understanding of humans and human behavior, architects create a built environment through integrating arts and technology. The major has a primary goal to develop competent architectural experts with the knowledge of culture and art to accommodate the future demand.

Master of Architecture program is a two-year course study for individuals who hold a Bachelor of Science in Architecture or a Bachelor of Architecture degree and seek to extend their previous education in architecture. It offers critical frameworks for investigating pertinent architectural and urban design concerns, practices, history, theory and architectural information technologies in 21st-century architecture and urbanism.

The Department of Architecture provides a well-balanced educational environment with excellent facilities, laboratories and state-of-the-art equipment. The courses are established according to the international criteria to educate students as a professional architectural designer and expert. We invite you to learn more about the study of architecture at Kyung Hee University.

Degree Requirements
- To receive Master’s Degree, minimum 24 course units are required for the major of Architectural Information Technology and Digital Architecture, Urban Planning, Architectural History and Theory and minimum 33 course units for the major of Architectural Design.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Architecture thesis committee.
- A thesis advisor can be any faculty member from the Architecture department.
Courses

Faculty
Byung-Ik Soh, Ph.D. Yonsei University, 1985, Professor, Architectural Design, bisoh@khu.ac.kr
Yeong-Te Ohn, Ph.D. University of Pennsylvania, 1988, Professor, Urban Design, ytohn@khu.ac.kr
In-Han Kim, Ph.D. University of Strathclyde, 1994, Professor, Architectural Design Theory & Information Technology, ihkim@khu.ac.kr
Kwan-Seok Lee, Ph.D. Paris I-Pantheon Sorbonne, 1997, Professor, Architectural Design and Theory, archlee@khu.ac.kr
Dae-Hee Cho, Ph.D. Seoul National University, 1995, Professor, Architectural Design and Theory, dbjoe@khu.ac.kr
Eun-Seok Lee, Ph.D. Architect D.P.L.G. Paris I-Pantheon Sorbonne, 1996, Professor, Architectural Design, komalee@khu.ac.kr
Jae-Heon Jeong, Architect D.P.L.G. Ecole d’Architecture de Paris-Belleville, 1993, Associate Professor, Architectural Design, jeongh@khu.ac.kr
Jong-Hun Kim, Dott. in Arch. Politecnico di Milano, 1989, Assistant Professor, Architectural Design, kimjh@khu.ac.kr
Il-Hyun Kim, Ph.D. Istituto Universitario di Architettura di Venezia, 2001, Assistant Professor, Architectural History and Theory, ilhyunkim@khu.ac.kr
Kwan-Soo Kim, R.A., M. Arch, Harvard University, 1999, Assistant Professor, Architectural Design, kwansookim@khu.ac.kr
Chan-Joong Kim, M.Arch, Harvard University, 2000, Adjunct Professor, Architectural Design
Doo-Yeol Lee, M.Arch, Waseda University, 1987, Adjunct Professor, Architectural Design

Laboratories
ITALab
URL: http://light.khu.ac.kr
Director: Professor, In-Han Kim (ihkimml1@gmail.com)
Full-time Lecturer, Jung-Sik Choi (jungsikchoi@khu.ac.kr)
Half-time Lecturer, Ju-Nam Lee (k2133836@empal.com)

Research Overview
In 1996, ITALab (Lab. For Information Technology in AEC) was established by Prof. In-Han Kim. In 1997, ITALab was buckled to researching about Information Technology in Construction Sector with first graduated students. This part is becoming important because of informalization of Construction Sector and advent of Construction CALS System. And Korea is in the quickening period that needs many experts on it. In this situation, we have pride because we are pioneer of Information Technology in Construction Sector. This Lab. is waiting for students who want be research students or want to attend Master/Doctor courses that have a interest in Architecture/Construction Information Technology and graduated from the major of Computer or Others.

Atelier Komalee/Architectural Laboratory
URL: http://komalee.com
Director: Professor, Eun-Seok Lee (komalee@khu.ac.kr)
Research Overview

It is the role of the Atelier Komalee to give form to the vision and needs of the user, and integrates and orchestrates the often conflicting requirements of the project. A successful project requires close collaboration among the entire design and construction team as well as the use of available technology and rigorous evaluation throughout the process. Challenges and contradictions do not have to result in compromise. Rather, they are essential in shaping the project and making it unique and meaningful.

Ongoing Projects

Atelier Komalee aims to improve the general urban and architectural environment through the virtual experiment. Especially, it is our advantage to experience a lot for cultural, educational and religious facilities. Above all, we concentrate on the Korean church projects developing modern design typologies of them as the antithesis to the traditional classical design. Recently, our research boundaries are expanded to the resort facilities and private houses. Based on the modern design theory, our lab is doing the Kyung Hee-UN Peace Museum design project as a part of the Global NGO Tower and UN Peace Park project in Kyung Hee global campus.

Modern Architecture Laboratory (MAL)
Director: Professor, Kwan-Seok Lee (archlee@khu.ac.kr)

Research Overview

Main research subjects of this laboratory are focused on three directions: Contemporary museum architecture, Le Corbusier and architectural design. This laboratory has studied contemporary museum architecture since 1995, specially on its modern circulation and the systems of inflow of natural light, types of exhibition space, etc. not from historian’s or theorist’s viewpoint but from that of architect’s. We also have carried out studies on the architectural characteristics of museums designed by great museum architects like Le Corbusier, James Stirling, Richard Meier, Tadao Ando and Henri Ciriani. The results of research on Le Corbusier’s architecture have been published by several books and papers. The research in progress on his definitions of architecture will be issued too in time. Until now this laboratory has executed many architectural design projects and won several design competitions. Main accomplished projects include MnC Power, Hagi Middle School and Woondong Elementary & Middle Schools.

Ongoing Projects

- Research on Le Corbusier’s definitions of architecture
- Translation of Pour une Architecture Lente written by Laurent Beaudouin

Modern Housing Laboratory (MHL)
Director: Professor, Jeong-Jae Heon (jeongh@khu.ac.kr)

Research Overview

Modern Housing Laboratory was founded in 2003. This laboratory has researched on modern housing environment and future housing space accommodating regional environment. We intend to research typology of single family housing in urban and suburban areas.

Ongoing Projects

- Single family house in Pan-gyo

Architectural Conservation and Restoration Lab
Director: Assistant Professor, Jong-Hun Kim (kimjh@khu.ac.kr)

Research Overview

The main focus of the lab is on the conservation and restoration of architectural heritages as well as design projects related to them. We also research and develop architectural design solutions for cemeteries along with the other design projects.

Research and Design Lab (ReDL)
Director: Associate Professor, Il-Hyun Kim (ilhyunkim@khu.ac.kr)
Assistant Professor, Kwan-Soo Kim (kwansookim@khu.ac.kr)

Research Overview

Our research focuses on the study of urban morphology and architectural typology in contemporary society. We analyze the relationship between social activities and build environments while producing innovative solutions to the
current spatial and architectural issues related to the public realm in the urban space.

**Ongoing Projects**

- Research and development for the prototypes of integrated community facilities in Byul-rae area in the city of Euijungbu
- Research and development for the prototypes of integrated community facilities in Unjung area in the city of Paju
- Research and development of the guide line for the community complexes for the First Town in the multifunctional administrative city
- Practical strategy of the new town project in Gyeonggi-do
Professional Graduate School

Graduate School of East-West Medical Science
Graduate School of Pan-Pacific International Studies
Graduate School of Physical Education
School of Medicine
Graduate School of Dentistry
Law School
Graduate School of East-West Medical Science was established in 1999, as an educational system to produce creative researchers in the field of ‘East-West Medical Science,’ which combines knowledge of oriental medicine and western medicine. Its establishment was a part of the university’s long-term strategic program, ‘Kyung Hee University’s (KHU) future in the new millennium: Vision 2000,’ which indicated ‘oriental medicine’ as a specialized future research area of KHU. And the establishing process of GSM was accelerated by its participation in the first stage of Brain Korea 21 Project (BK21) granted by Korean Ministry of Education and Human Resource for 6 years from 1999 to 2005.

Degree Requirements
Degrees offered by GSM are M.S. and Ph.D. in the fields of Oriental medicine, Medicine, Medical science, Medical nutrition.

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<tr>
<th>Departments [major]</th>
<th>Degrees (M.S. / Ph.D.)</th>
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<tr>
<td>East-West Medicine</td>
<td>Oriental Medicine, Medicine</td>
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<tr>
<td>East-West Medical Science</td>
<td>Medical Science</td>
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<td>Medical Nutrition</td>
<td>Oriental Medicine</td>
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Completion of the following is required prior to achievement of degrees.

- The minimum credits required for graduation in each department are 24 and 36 units for M.S. and Ph.D. degrees, respectively.
- Qualifying examinations are held in 3 and 4 common courses for M.S. and Ph.D. degree, respectively.
- Pass foreign language examination.
- Complete form of thesis approved by 3 and 5 committee members for M.S. and Ph.D. degree, respectively.
- At least one submission and publication in National (KRF) and SCI Journal for M.S. and Ph.D. degrees, respectively.

Courses
Common Courses
Analytical Biochemistry, Biochemistry, Cell Biology, Current Theory of Acupuncture & Meridian, Immuno-Histochemistry, Medical Statistics, Molecular Biology, Natural Products Chemistry, Neuroscience, Oriental Medical Theory, Research Methods for New Medicine, East-West Integrated Medical Science Research

Dept. of East-West Medicine
East-West Medical Research Methodology, The Newest Western Medicine, Practice of Integrated Medicine, Comparison of Eastern and Western Medicine, General Theory of Eastern Medicine, Psychosomatic Medicine, Statistics in Health Science, Clinical Nutrition, Common Statistical Methods for Clinical Research, Integrated Research of Eastern and Western Medical Science, Analytical Biochemistry, Biochemistry, Cell Biology, Current Theory of Acupuncture &

Dept. of East-West Medical Science (Medical Science)
Biochemistry, Molecular Biology, Pharmacology, Cell Biology, Advanced Biochemistry, Natural Products Chemistry, Cellular and Molecular Immunology, Pharmacognosy, Immunohistochemistry, Human Physiology, Neurophysiology, Current Topics in Life Science, Special Topics I-IV, Biological and Chemical Methodology, Molecular and Cellular Methodology, Animal Imaging, Metabolism and Endocrinology, Seminar I-II, Scientific Writing

Dept. of East-West Medical Science (Oriental Medical Science)
Foundations of Neuroscience, Special Lecture of Anatomy & Physiology, Seminar on Current Topics of Brain Research, Foundations of Brain Disease Research, Research of Ischemic Brain Diseases, Research of Degenerative Brain Diseases, Brain Diseases in Oriental Medicine, Medicinal Herbs for Brain Diseases, Neuropharmacology, Special Lectures of Neuroanatomy, Clinical Anatomy, Special Lectures of Neuroscience, Molecular Neuroscience, Methodology of Neuroscience, Cognitive and Behavioral Neuroscience, Seminar of Oriental Biomedical Science, Clinical Application of Oriental Biomedical Science, Neuroscience of Pain, Autonomic Nervous System, Neuroendocrinology, Research Methods on Oriental Biomedical Science

Dept. of Medical Nutrition
Nutrient Function and Metabolism, Medical Nutrition Therapy, Current Topics in Nutrition, Nutrition Physiology, Nutrition Biochemistry, East-West Medical Nutrition, Supervised Practice I, II, III, IV, Biochemistry Laboratory, Cancer and Nutrition, Nutritional Support and Practice, Functional Foods and Nutrition, Nutrition and Immunology, etc.

Faculty
Jae-Hwan Lew, M.D., Ph.D. Kyung Hee University, 1999, Professor, Internal Medicine (Intensive Care Medicine), intmed@khu.ac.kr
Se-Hyun Kim, Ph.D. University Hawaii, 1996, Associate Professor, Biostatistics, mucc@khu.ac.kr
Sung-Ho Maeng, M.D., Ph.D. Seoul National University, 2001, Assistant Professor, Pharmacology, jethrot@khu.ac.kr
Chul-Hun Kang, Ph.D. Iowa State University, 1995, Associate Professor, Biochemistry, kanch@khu.ac.kr
Sun-You Kim, Ph.D. Seoul National University, 1996, Professor, Pharmacognosy, sunnykim@khu.ac.kr
Eun-Joo Hwang, Ph.D. The Ohio State University, 1997, Professor, Molecular Cell Biology, ehwang@khu.ac.kr
Ji-Ho Park, Ph.D. Leeds University, 1994, Associate Professor, Neurophysiology, jihopark@khu.ac.kr
Joung-Woo Hong, Ph.D. The Ohio State University, 2004, Assistant Professor, Molecular Biology and Biochemistry, jwhong46@khu.ac.kr
Tae-Woo Kim, Ph.D. Seoul National University, 2001, Assistant Professor, Organic Chemistry, tw1275@gmail.com
Nak-Won Sohn, O.M.D., Ph.D. Kyung Hee University, 1990, Professor, Neuroanatomy, sohnmw@khu.ac.kr
Hee Kang, O.M.D., Ph.D. Kyung Hee University, 2005, Assistant Professor, Oriental Pathology, suyoung@hanmail.net
Ryo-Won Choue, Ph.D. University of Illinois, 1993, Professor, Nutrition, rwcho@khu.ac.kr
Yun-Hi Cho, Ph.D. UC Davis, 1994, Professor, Nutritional Biochemistry, choyunhi@khu.ac.kr
Yu-Kyung Park, Ph.D. University of Illinois at Urbana Champaign, 1999, Associate Professor, Human Nutrition, ypark@khu.ac.kr
Jeong-Min Lee, Ph.D. University of Arizona at Tucson, 1999, Assistant Professor, Nutrition and Immunology, jlee2007@khu.ac.kr
Dong-Hyung Cho, Ph.D. Gwang Ju Institute of Science and Technology, 2005, Assistant Professor, dhcho@khu.ac.kr
Laboratories

- **Laboratory of Herbal Pharmacology**
  URL: http://web.kyunghee.ac.kr/~herbal/snkim/snframe.htm
  Director: Professor, Sun-Yeou Kim (sunnykim@khu.ac.kr)
  
  **Research Overview**
  Pharmacognosy (chemistry and biology of natural products) is the study of bioactive natural products found in plants, animals and microbes. Natural Products have recently become an important source of small molecule chemical entities that regulate various disease-related molecular targets. Our research group is actively involved in the isolation, structure assignment using NMR and MASS, and screening and selection of natural products with activity against skin related diseases (skin photoaging and hyperpigmentation, skin photoinflammation), neurological disorders and diabetic complications.

- **Laboratory of Proteomics**
  URL: http://web.kyunghee.ac.kr/~neuron/faculty/kch.html
  Director: Professor, Chul-Hun Kang (kangch@khu.ac.kr)
  
  **Research Overview**
  In most of the biological processes including pathology of many diseases, alteration of expressed protein levels is involved, and identification of the proteins with altered expression is important to understand the processes. Proteomic approaches are certainly a promising technology pursuing this issue. The aim of ‘Laboratory of Proteomics’ is to develop proteomic technology and to discover disease-related proteins thereby. The current research topics in the lab include:
  - Development of large scale proteomic platform based on 2-D gel electrophoresis
  - Characterization of proteins involved in response to low oxygen stress
  - and lipid-induced hepatic damages

- **Laboratory of Physiology**
  URL: http://web.kyunghee.ac.kr/~neuron/faculty/pjh.html
  Director: Professor, Ji-Ho Park (jihopark@khu.ac.kr)
  
  **Research Overview**
  With the integrative view on animal function and mechanism, physiology has a strange approach philosophy to understand the phenomenon. In our lab, we will try to investigate the fundamental functional study of neural interaction using multielectrode array, long term live calcium imaging and electrical ion channel recording. Moreover, a practical approach to screen bioactive material is also adapted using above methods. Specific research topics including:
  - Neuronal modulation study during learn and memory
  - Functional analysis of herbal drugs and development of alternative drugs using electrophysiological techniques
  - Neural interaction study using organotypic culture and multielectrode array (MEA) system

- **Laboratory of Cell Biology**
  Director: Professor, Eun-Joo Hwang (ehwang@khu.ac.kr)
  
  Glial cells, astroglia and microglia, play crucial roles in the development, differentiation and survival of neurons in the brain. Glial cells become activated in response to brain injury, a process termed “reactive gliosis.” Microglia play an important role in immune surveillance in the brain. During reactive gliosis, microglia secrete neurotoxic substances, which kill neurons and have been proposed to be the major causes of diverse neuropathologies. Major areas of research include molecular mechanisms of glial activation, glia-mediated neurotoxicity, and exploration of novel anti-inflammatory compounds for neuroprotection.

- **Laboratory of Molecular Biology**
  Director: Professor, Joung-Woo Hong (jwhong46@khu.ac.kr)
  
  Molecular Biology laboratory studies transcription regulation mediated by cis-acting elements in the early embryo of Drosophila melanogaster. Particular efforts focus on the organization of cis-regulatory elements to respond to morphogen gradient, the enhancer-promoter communication, and the transcriptional control of metastasis of malignant tumor.
Laboratory of Chemical Biology
Director: Professor, Tae-Woo Kim (tw1275@gmail.com)
Research Overview
Nucleic acid chemistry-Oriented Methodology Development: The integrated technology of Apto-precipitation & Proteome mass analysis
Aptamer, target-specific nucleic acid ligand is selected by SELEX (Systematic Evolution of Ligands by Exponential Enrichment) in vitro. It is believed that aptamer can overcome some disadvantages of the present antibody-based methodology. The integrated technology into which the aptamer-based pull-down and the mass spectrometry-based proteome analysis converge will provide an extremely useful tool for the proteomics and glycomics research.

Glycomics: Cancer Diagnostic Application of Glycoisoform
Glycosylation modulates the activity, turnover, interaction of most proteins. Thus glycoisoform diagnostics is considered to be the best indicators of the type and severity of many diseases including cancer. The relationship between glycosylation and cancer is investigated by using the aptamer-mass spec. fusion technology. The cancer-specific glycan can be applied for therapeutic and diagnostic purposes.
- Development of aptamer-Mass spec. fusion technology
- Development of glycan specific aptamer
- Study on the relationship between PTMs (post-translational modifications), protein isoforms, and cancer

Laboratory of Neuroscience & Oriental Medical Science
URL: http://web.khu.ac.kr/~neuron
Director: Professor, Nak-Won Sohn (sohnwn@khu.ac.kr)
Research Overview
This laboratory is interested in the integrative research of neuroscience and oriental medical science for ischemic & degenerative brain diseases. The research models used in this laboratory is the histo-pathological in vivo animal studies including MCAO, ICH, spinal cord injury, etc.
Specific research topics include:
- Study on neuroprotective effects of herbal medicines on brain diseases
- Study on pharmacological effects of herbal medicines on brain metabolism and cerebral blood flow
- Study on immunological effects of herbal medicines

Laboratory of Medical Nutrition
Research Overview
The department of medical nutrition proposed medical nutrition therapy (MNT) by combining nutritional science with oriental medicine and medical sciences. Research focus of the faculty members are application of MNT in clinical settings, mechanism of antioxidant nutrients in vitro and in vivo, dietary efficacy in human and animal model, nutritional mechanism of skin disease, development of functional foods for enhancing immune status, and so on.
The department of medical nutrition has been carrying out the coordinated program (CP) in dietetics since March of 2004. The program includes didactic education and supervised practice experiences complying with the guidelines of the Korean Dietetic Association and the American Dietetic Association. In November 2008, the CP program was granted substantial equivalency from ADA.
Globalization has increased the demand for experts in international affairs. As international affairs have become more complicated, the necessity and importance of education and academic research are more compelling than ever. The MA program at GSP was established in March 1997 at the Suwon Campus of Kyung Hee University to meet these demands. GSP also began offering doctoral programs in 2000. From its founding, GSP was selected as one of nine graduate schools in Korea to receive financial support from the government for the purpose of educating international experts.

The program aims to train world-class specialists in various areas to become future leaders. Through academic and practical training at GSP, students are equipped with practical knowledge, a broad sense of international affairs, and skills not only to identify global problems but also to solve them. GSP places strong emphasis on both theoretical knowledge and practical training. Given this, GSP invites public officials, academics, and specialists to lecture at the university. Moreover, all GSP students are required to complete internships prior to graduation in order to gain hands-on experience and put theory into practice.

Department or Majors
Department of International Trade and Economic Cooperation (IT & EC)
- Majoring in International Trade and Economic Cooperation
- Majoring in Korean Economy
Department of International Development Cooperation (IDC)
Department of International Business (IB)
Department of International Relations (IR)

Degrees Offered
International Trade & Economic Cooperation (MA, Ph.D.)
International Development Cooperation (MA, Ph.D.)
International Business (MA, Ph.D.)
International Relations (MA, Ph.D.)

Degree Requirements
- Students must attend GSP for at least three semesters.
- Students must obtain at least 45 course units for the master’s degree; 42 course units for the doctoral degree.
- Students must fulfill internship for at least four weeks. (Only for MA Program)
- Students must pass one foreign language test among TOEFL, TOEIC, IELTS.
- Students must graduate with a minimum GPA of 2.7 in completed credits.

Courses
Department of International Trade and Economic Cooperation (IT & EC)
- International Trade and Economic Cooperation (IT & EC)
Advisor: Professor, Sang-Hyup Shin (shshin@khu.ac.kr)
As the trend of globalization progresses, trade-related problems have emerged as a core issue in the international arena. Bilateral and multilateral negotiations on trade-related issues take place all over the world. Under these circumstances, economic and social policies can be effective only when they consider the international dimension. In the globalizing world, competition is expected to be more severe as all the economies in the world integrate into a single market economic system. On the other hand, the importance of international economic cooperation and policy coordination must also be stressed for harmonious development. This program is designed to educate students in international trade, trade negotiations and various international cooperation programs and institutions. The high standards of this program train specialists equipped with professional knowledge of the international scene as it relates to trade and economic cooperation.

- Korean Economy and Development Cooperation (MKE)
  Advisor: Professor, Tae-Hwan Yoo (pine@khu.ac.kr)
The MKE Program is specifically tailored for young foreign civil servants who seek advance training in economics and business in preparation for future leadership in a government or an industry. This program acknowledges the support of the Korea International Cooperation Agency program for Human Resource Development. KOICA is an organization dedicated to sharing Korea’s knowledge and experience in human resource development with the international community in a spirit of cooperation.

Department of International Development Cooperation (IDC)
Advisor: Professor, Jae-Sung Kwak (kwakwak@khu.ac.kr)
For many poor economies international development assistance is a very significant part of public expenditure. Who decides what resources are given or lent, to which countries and under what conditions? What types of aid are effective? What are the post-emergency priorities in countries suffering from the effects of man-made or natural disasters and how can international aid work best in such conditions? Such questions are mainly concerned with capacity and performance in the public sector, but private sector experience should be drawn. Hence, the recognition of capacity development is fundamental components of development sustainability and aid effectiveness. Our program aims to introduce the basic notion of international development with integrating development management, state, market and the role of NGOs in the Official Development Assistance (ODA) context. The course will be delivered through cases from the nonprofit, private and public actors in the area of education, banking, retail, health, civil service, agriculture, natural resources, and infrastructure.

Department of International Business (IB)
Advisor: Professor, Keun-Soo Kim (keunskim@khu.ac.kr)
The international economy of today offers unprecedented opportunities and challenges. To meet these challenges, corporations must develop a cadre of experts who possess a deep understanding of global issues, as well as a command of core business skills. The teaching goal of this department is to provide students with a theoretical and practical background in international business so that they will understand the principles and structures of business activities in the emerging borderless market environment. Our program fully integrates the different components necessary for effective management: a firm grasp of financial skills, expertise in the global competition of multinational corporations, and an emphasis on both cultural as well as economic points of view.

Department of International Relations (IR)
Advisor: Professor, Hahn-Kyu Park (hkpark@khu.ac.kr)
International Relations is an academic field centering on all the international affairs among nations, business organizations and NGOs in the world. International Relations focus on political science, economics, history and languages, a range of issues including international security, international political economy, political and economic development, and the politics of the transition to democracy. Globalization requires professional leaders to be equipped with the foundational skills and specific knowledge necessary to analyze the behavior of contemporary countries. The purpose of international relations is to prepare students for these requirements.

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The objective of the Graduate School of Physical Education at Kyung Hee University is to contribute to the enhancement
of public health by educating intelligent and professional leaders who are expected to lead Physical Education in Korea.
There are three majors in the Graduate School such as Sports Industry and Management, Sports Science and Medicine,
and Sport Studies and Taekwondo. We have a wide range of useful facilities that help students attain general
understanding of Physical Education. The Graduate School has continually developed the curriculum with reflection of
fast changes of society. As a prominent Physical Education leader, the Graduate School of Physical Education at Kyung
Hee University has been leading new trends and methods of instruction. We are trying to continuously develop new
concepts of Physical Education.

Degree Requirements
• The curriculum of this Graduate School consists of general subjects and major subjects.
• Lectures consist of common lectures and specialized lectures that can be combined with seminars, special lectures,
group discussions, team teaching, and soon.
• For the Master’s degree, students are required to take at least 24 credits and to pass at least five subjects (general major :
2, instruction for grade paper: 1).
• For the Ph.D., students are required to take at least 36 credits and to pass five subjects (general major: 2, instruction for
grade paper: 1).
• Credits taken in the semester may not exceed 9 credits in the Master’s program and 12 credits in the doctoral program.
We do not give credit for a pass-and-fail grade. However, Masters of the foreigners who can complete 12 additional
credits.
• A certificate acquired at the Universities which are sharing a friendly relationship with Kyung Hee University is
accepted. One or two subjects are accepted depending on the length of instruction at these schools.
To get a credit, students must attend over two thirds of the whole length of a lecture with the grade higher than C (points 2.0).

For those who enter the master’s program after finishing the courses at this University, twelve credits that the student received in the courses can be admitted upon the approval by the director of the Graduate School.

Courses

Faculty
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Laboratories
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- Exercise Prescription LAB
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  Assistant Professor, Jong-Kyung Kim (kyung19692002@khu.ac.kr)
- Korean Society for Sport Management
  Director: Associate Professor, Do-Kyun Kim (dukekim@khu.ac.kr)
  Full-time Lecturer, Jin-Wook Han (hjw5893@khu.ac.kr)
The School of Medicine seeks to impart students with a firm grasp of mental and physical health by basic and clinical studies. To accomplish this goal, the school offers a 4-year program in basic human science and clinical science. The first year of the program is devoted to a basic medical course such as Anatomy, Physiology, Biochemistry, Histology, Embryology, Neurology Genetics, Pathology, Pharmacology, Microbiology, Immunology, Preventive Medicine, and Parasitology. During the next three years, the students are trained to gain expertise in the various clinical subjects.

Degree Requirements

Year 1
The first year of program requires 45 credit hours of 30 class courses consisting primarily of basic medical sciences. The courses include Anatomy, Physiology, Biochemistry, Histology, Embryology, Behavioral Science, Genetics, Pathology, Pharmacology, Microbiology, Immunology, Preventive Medicine, and Parasitology.

Year 2
The second year program mainly contains clinical lectures and practice. Students are asked to register for 46 credit hours of 25 class courses.

Year 3
The third year program mainly contains clinical clerkships. Students are asked to register for 46 credit hours of 12 class courses.

Year 4
The fourth year program contains clinical clerkships. Students are asked to register for 46 credit hours of 31 class courses.

Courses

Year 1
Anatomy, Physiology, Biochemistry, Histology, Embryology, Neurology, Immunology, Pathology, Pharmacology, Microbiology, Preventive Medicine, Parasitology, Genetics

Year 2
General Surgery, Infectious Diseases, Allergy & Immunology, Endocrinology and Metabolism, Hematology Oncology, Nephrology, Uro-Reproductive Medicine, Neurology, Cardiovascular Disorders I & II, Pulmonology, Gastroenterology I & II, Medicine for Fetus, Neonate and Mother I & II, Dermatology, Anesthesiology, Medical Ethics, Forensic Medicine, Psychiatry, Musculoskeletal, Disorders, Ophthalmology, Otolaryngology, Clinical Pathology, Diagnostic Radiology, Emergency Medicine, Healthcare Management, Medical Law and Regulation, Family Medicine, Medical Engineering

Year 3
Internal Medicine Clerkship (Hemato-Oncology, Nephrology, Cardiology, Pulmonology, Gastroenterology, Endocrinology, Infectious Disease, Rheumatology), Surgery Clerkship, Pediatrics Clerkship, Obstetrics and Gynecology Clerkship, Neuropsychiatry Clerkship, Medical Humanities Selective Advanced Selective in Medicine

Year 4
Diagnostic Radiology Clerkship, Neurology Clerkship, Emergency Medicine Clerkship, Anesthesiology Clerkship, Neurosurgery Clerkship, Plastic Surgery Clerkship, Orthopedic Surgery Clerkship, Thoracic and Cardiovascular Surgery Clerkship, Otolaryngology Clerkship, Ophthalmology Clerkship, Urology Clerkship, Rehabilitation Medicine Clerkship, Family Medicine Clerkship, Dermatology Clerkship, Pathology Clerkship, Community Medicine Clerkship, Community Hospital Clerkship, Comprehensive examination of Clinical Medicine

Faculty

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Graduate programs at the Department of Dentistry lead to an advanced academic degree, either the master of science (MSD) or the doctor of philosophy (Ph.D.) in basic and clinical dental fields. These programs have a strong research orientation and require a thesis. MSD and Ph.D. programs in basic dental sciences permit the students to focus on one of the following tracks: dental materials, community dentistry, craniofacial morphology and function, oral molecular, cellular and systems biology, and oral diseases including infectious diseases. Programs are also available for those who wish to pursue a graduate degree in the clinical dental sciences concurrently with or without clinical special education of Operative Dentistry, Prosthodontics, Oral and Maxillofacial Surgery, Pediatric Dentistry, Periodontology, Orthodontics, Oral and Maxillofacial Radiology, and Oral Medicine. Welcoming the challenges of the 21st century, the College of Dentistry is preparing for its transformation into a system of professional school similar to that of American dental schools in which candidates are required to obtain a bachelor’s degree before application. The Dental College employing the new system started in 2003. The new system will be in full operation from 2005. Eventually, graduate studies in dentistry will also adopt a new curricular system and academic degree to meet the need of higher professional expertise in clinical fields and advanced studies in basic dental sciences.

**Degree Requirements**

- At least 24 course units of graduate level credit in Dentistry courses are required for the MSD, 60 course units for the Ph.D.
- Students are required to take an integrated block lecture course in each program.
- Students are required to take at least 9 credits of the required courses in their major for the MSD, 15 credits for the Ph.D.
- Students must pass a foreign language examination and a qualifying test; a total of 18 credits in MSD program and 24 credits in Ph.D. are required to take a qualifying test.
Courses
Biostatistics, Thesis Writing, Research Methodology, Dental Caries Research, Bone and Bone Metabolism, Oral Health Administration and Education, Protein Chemistry, Pain, and Current Topics in Anatomy, Pathology, Physiology, Microbiology, Biochemistry, Pharmacology, Preventive Dentistry, Dental Materials, Operative Dentistry, Prosthodontics, Oral and Maxillofacial Surgery, Periodontology, Orthodontics, Pediatric Dentistry, Oral and Maxillofacial Radiology, and Oral Medicine

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Laboratories

- **Testing & Development Center for Dental Materials**
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  The Testing & Development Center for Dental Materials was founded on January 17, 2000 to perform the laboratory testing business of dental materials defined in medical devices national laws established in May 2005, and the research and development business of dental materials for domestic manufacture systems. The Center is registered at KFDA as one of representative facilities of testing dental materials with the accepted quality assurance, and has been designated by the Korean Agency for Technology and Standards (KATS), Ministry of Commerce, Industry and Energy (MOCIE) as a managing organ representing Korea in the world business related in ISO TC 106 (International Standardization Organization, Technical Committee 106 for Dental Materials) from 1999 till 2004. The Center is divided into the administration party, the testing department and the developmental department, and equipped with 18 specialized staffs, and approximately 50 testing instruments.
  The Center has a system for partnership for high-price testing equipments with equivalent quality manual between us and the other testing facilities.
  The Center has functions including the testing & evaluation business, the research & development business, and the standardization business for all dental materials including dental equipments. The Center has some activities including the research financing, the training of specialized researchers, the publication of journal, the international academic communications, the linked research between basic & applied sciences, the opened partnership for testing facilities, venture business, internet homepage managements, and seminars, etc.
  The Center has goals such as being receiving official recognition as a worldwide testing center through the accumulation of fine and standardized technologies for the experiments and the development of manufacturing procedures for dental materials through systemic research. The Center’s final goals are to make an image of our University as eminent and trustful, and to make the Center globalized, via academic and scientific services for our society and world.

- **Laboratories in association with the Institute of Oral Biology**
  E-mail: kyhyuk@khu.ac.kr
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  As industrial development progresses, the need for better oral health increases. The Institute of Oral Biology was founded to meet the needs of the public. The function of the institute is to support inter-departmental research teamwork, design a new research system, and to plan and conduct institutional projects. Thereby, the institute contributes to the development of dental science and industry. Institute of Oral Biology is composed of 16 departmental laboratories of the College of Dentistry. Research interests of the laboratories include craniofacial development and regeneration of oral tissue, bone and bone metabolic disease, oral cancer and carcinogenesis, biologic effect of irradiation, neuroscience and biology of pain, stress, electrophysiology, food-based vaccine against infectious diseases, implant biology, evaluation and development of dental materials and oral hygienic aids.
Kyung Hee Law School aims to train students as competent lawyers furnished with the professional knowledge and problem-solving skills with which they are able to be in the vanguard of globalization, ultimately making a leading contribution to the prosperity of the nation and communities through innovative and progressive activities.

- To Produce Lawyers Equipped with Well-Rounded Value and Professional Ethics. By letting creative and enterprising features of scholarship be added on the basis of a great store of culture required for professionals, in-depth tenderness towards and understanding of human and society and sense of value oriented to freedom, equality and justice, the School purposes to train lawyers who have sound perspectives on value and ethics which voluntarily serve Korean people, keeping pace with the times.

- To Cultivate Lawyers of Having both the Professional Legal Knowledge and the Ability to Solve Legal Problems. The primary educational goal of the School is to train students as lawyers who have an in-depth knowledge of general and special circumstances of everyday life in which conflicts are caused among members involved and the ability to resolve the conflicts.

- To Foster Legal Professionals with Global Mind and Open Attitude. Also, the School wants to educate and train specialists in international legal affairs equipped with a comprehensive understanding of important theoretical tools and current legal issues, and good capability of playing active roles in the international community.

- To Train Future Community Leaders. The School aims to foster community leaders, not simple legal technocrats, of capacity to serve the development and prosperity of the nation, the society, and all mankind with sound views on profession and ethics.

Programs Offered

- J.D. & S.J.D. Programs

Academic Activities and Future Career

The specialization field of the School is global business law. The reason why the School decided to specialize in global business law is that its concentration on the law will increase its competitiveness both national and international since there is strong needs to keep abreast with the times of which main characteristic is globalization.

- Global International Trade Law: Those who completes of this tract will serve as in-house counsels of domestic and international corporations, and agents for multinational corporations.

- Global Financial Law: Those who completes of this tract will serve as in-house counsels of financial corporations such as banking, securities and insurance corporations and work as specialists in the department of finance of corporations.

- Global Tax Law: Those who completes of this tract will get jobs as tax experts in public corporations, securities /financial corporations, and other corporations.

- Global IT & IP Law: Those who completes of this tract will serve as lawyers who specialize in e-commerce and intellectual property rights, working for corporations such as eBay, Auction, and G-market.

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Special Graduate School

Graduate School of Business Administration
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Graduate School of International Legal Affairs
Graduate School of Public Policy and Civic Engagement
Graduate School of Tourism
Graduate School of Art & Fusion Design
The Graduate School of Business Administration (GSBA), Kyung Hee University, is one of the most prestigious business schools in Korea, which offers an excellent business training program to cultivate innovative and effective managers in the various areas.

The GSBA provides a unique MBA program specialized in Management Consulting, International Management Arts, Arts & Culture, Brand Management, Tax Management, Healthcare, China, e-Business, Healthcare as well as in general Business Administration. Top qualified professors and instructors in each program provide rigorous and discipline-based business education to transform students into creative, progressive and constructive business leaders.

The GSBA maintains 9 branch campuses in concert with the Korean Army, Navy and Air forces. They help military officers earn MBA degrees at campuses nearby their duty stations. More than 400 military officers are currently enrolled on these branch campuses.

The GSBA also provides non-degree programs including: Business Expert Program, Continuing Lifetime Learning Program, and the Chief Executive Officer Program. The Business Expert Program is a pre-MBA program to help non-business major students prepare for the MBA program, while the Continuing Lifetime Learning Program is a post-MBA program to provide the graduates with updated business knowledge and skills. The Chief Executive Officer Program is a one year non-degree program, Executive Education Program, open to the general public, who desire to cultivate top manager’s qualifications. Kyung Hee University is an AACSB member institution and is seeking AACSB accreditation.

The GSBA offers the MBA programs in 13 professionalized majors across 3 academic fields. Among them are:

- Dept. of Business Administration: majors in Management/Tax Management/International Management/Management Consulting/e-Business/China Business/Brand Management
- Dept. of Health Services Management: majors in Health Institute Management/Health Policy/Health Industry Management
- Dept. of Arts & Cultural Management: majors in Museum Management/Performing Arts Management/Arts & Cultural Policy

**Degree Requirements**

- A minimum of 36 course units of graduate level credit in Business Administration courses are required.
- Students are required to pass a qualifying examination.
- Students must fulfill a Master’s thesis presentation, defense, and document requirements for the department.
- A thesis supervisor can be any faculty member from the department.

**Courses**

Dept. of Business Administration: majors in Management
Dept. of Business Administration: majors in Tax Management

Dept. of Business Administration: majors in International Management

Dept. of Business Administration: majors in Management Consulting

Dept. of Business Administration: majors in e-Business

Dept. of Business Administration: majors in China Business

Dept. of Business Administration: majors in Brand Management
Brand Marketing, Brand Naming, Brand Identity, Brand Design Management I & II, Diagnosis of Brand Equity, Advanced Brand Research, Brand Management Strategy, Brand & Design Laws

Dept. of Health Services Management

Dept. of Arts & Cultural Management

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The Graduate School of Education aims to reorient secondary school teachers and train pre-service teachers toward new theories and methods of teaching and learning so that they can keep abreast with the rapidly changing developments in the educational environments. Considering current educational trends emphasizing lifelong education and ICT in the age of information and knowledge, the importance of reeducation and training has been increasing more than ever. In this context, the Graduate School makes the best efforts to lead and initiate the most updated and developed educational systems.

Programs for Master of Arts in Education


Degree Offered

This program offers both the Master’s degree and non-degree professional training programs.

Degree Requirements

As for course work, all the graduate students must complete more than 8 credits of teacher education subjects, 16 credits of the major subjects, and 6 credits for the thesis. In order to write the M.A. thesis, they are also required to take one course in English and the qualifying examination as well.

Faculty

- Seoul Campus
  - In-Ae Kang, Ph.D. Indiana University, 1995, Professor, Educational Technology, iakang@khu.ac.kr
  - Jin-Ryung Kang, Ph.D. Indiana University, 1992, Professor, Counseling Psychology, jrkang00@hanmail.net
  - Eun-Lim Chi, Ph.D. University of Chicago, 1992, Professor, Education Evaluation, eunlim@khu.ac.kr
  - Young-Hak Yoo, Ph.D. Kyung Hee University, 1999, Assistant Professor, Political Science, yooyh@khu.ac.kr
  - Myong-Hee Yang, Ph.D. Seoul National University, 2000, Assistant Professor, Educational Psychology, clara@khu.ac.kr
  - Youl-Gwan Sung, Ph.D. University of Wisconsin, 2004, Assistant Professor, Educational Curriculum, yksung@khu.ac.kr
  - Jeong-Gil Woo, Ph.D. U. Justus Liebig-Giessen, 2006, Assistant Professor, Educational History & Philosophy,
The Graduate Institute of Peace Studies (GIP) was established in 1984 with the aim of training potential world leaders. In 1993, the GIP earned recognition for its peace activities receiving the UNESCO Prize for Peace Education. To ensure long-term objectives, the GIP has placed institutional focus on the development of a peace- and leadership-oriented academic curriculum. In particular, the GIP seeks to offer courses based on a theory-praxis combination. The interdisciplinary nature of its educational program is demonstrated in a variety of regular courses and special lectures in Philosophy, Human Sciences, Ethics and Social Sciences. Like other international graduate schools, the language of instruction is English, but the GIP offers far more than just world-class programs in English. All students at the GIP live on campus and receive a full scholarship that covers books, room/board and tuition, with further financial support available for foreign exchange programs and international internships.

**Degree Requirements**

- Students must receive an average 2.7 GPA (Grade B-) or above during the previous 33 credits obtained.
- Pass the comprehensive examination.
- Pass the thesis presentation.
- Pass the thesis evaluation.
- Complete the internship.
- Pass the evaluation of campus life at Samjungseohun.

**Courses**

**Common required courses**
Peace and Governance, Humans and the Cosmos, Human Society and Modern Civilizations

**Major in Peace and Global Governance**
Major in Asia-Pacific Studies

Major in New Politics and Future Governance
※ All courses that are not a part of the major course are considered as elective course.

Faculty
Yong-Il Kong, Ph.D. Kyung Hee University, 1981, Rector, Applied Linguistics, yikong@khu.ac.kr
Gi-Bong Kwon, Ph.D. University of Pennsylvania, 1999, Associate Rector, International Relations, gbkwon@khu.ac.kr
Boutros Boutros-ghali, Ph.D. University of Paris, International Relations, Honorary Rector of GIP
Jae-Shik Sohn, Ph.D. Dankook University, 1993, Visiting Professor, Public Administration, ips@gip.khu.ac.kr
Chong-Sik Lee, Ph.D. University of California, Berkeley, 1961, Chair-Professor, Political Science, chongsiklee@khu.ac.kr
Sang-Seek Park, Ph.D. University of Massachusetts, 1971, Visiting Professor, Political Science, parksangseek@hotmail.com
Kwan-Bong Kim, Ph.D. University of Pennsylvania, 1969, Visiting Professor, Political Science, kbb3236@khu.ac.kr
Yer-Su Kim, Ph.D. University of Bonn, 1966, Visiting Professor, Philosophy, kmysyu@khu.ac.kr
Young-Koo Cha, Ph.D. Ecole des Hautes Etude en Science Sociale, 1979, Visiting Professor, Political Science
Ki-Joon Hong, Ph.D. Catholic University of Louvain, 1996, Assistant Professor, International Politics, kjhong@khu.ac.kr
Young-Ae Ha, Ph.D. National Taiwan University, 1989, Assistant Professor, Political Science, hayoungae@hanmail.net

Special Graduate School

Graduate School of Technology and Management

Tel : +82 31 201 2130~2 Fax : +82 31 201 2777 E-mail : khwb7000@khu.ac.kr URL : http://khwb.khu.ac.kr

Graduate School of Technology and Management is a graduate school established mainly for those who have jobs and wish to take a Master’s degree in order to acquire advanced business administrative skills. Founded in 1988, our institute operates not only the master degree program but also two non-degree program, that is, AMP (Advanced Management Program) and GEMP (Global Education Management Program).
Master degree program has three majors: Global Business Administration, Sports Management, and Golf MBA. Global
Business Administration is a major for the students who want to enhance the business administrative skills and almost all of the traditional business administration related courses are provided, e.g., marketing, human resource management, MIS, international business. Sports Management is a major for the students who want to enhance sports business related knowledge and techniques and various sports business related courses are provided, e.g., sports marketing, sports psychology, sports policy, leisure management. Golf MBA is a major for the students who have golf related jobs and want to apply advanced business skills to their own area. This major provides such courses as golf course management, turf grass management, golf course design and construction. In order to provide more practical education, our institute is recruiting professors who have not only the academic career but also the successful business background. Students can communicate with professors using the everyday business language and in that process can build their own theories explaining business situation they everyday encounter.

Our institute encompasses two non-degree programs: AMP (Advanced Management Program) and GEMP (Global Education Management Program). AMP is the program for the CEO (chief executive officer) and GEMP is the program for the CEO in the education-related business area. In the AMP, we provide lectures in various areas in which the CEOs are interested, e.g., business strategy, human relationship skills, health management, real estate management. In the GEMP, we provide lectures mainly specialized in running private education institute. Because almost all of the non-degree program students are interested in building human relationships with their colleagues, our institute actively supports their various extracurricular activities.

**Master Degree Requirements**
- Students must attend at least five semesters.
- Students must obtain at least 30 credit hours.

**Master Degree Majors**

**Global Business Administration**

**Sports Management**

**Golf MBA**
Golf Industry, Golf Course Design and Construction Seminar, Professional Golf Course Management and Seminar, Golf Related Topics and Seminar, Country Club Management, Landscape of Golf Course and Seminar, Golf Club Business and Club-Fitting

**Faculty**
Chan-Wook Park, Ph.D. Indiana University, 1991, Professor, Marketing, cwpark@khu.ac.kr

Department of Global Management
Moon-Taek Kwon, Ph.D. University of Wisconsin, 1987, Professor, M.I.S., kmt@khu.ac.kr
Min-Yong Kim, Ph.D. KAIST, 1994, Professor, M.I.S., andy@khu.ac.kr

Department of Sports Management
Kyung-Ji Kim, Ph.D. Konkuk University, 1995, Professor, Teaching Methods of Taekwondo, kimkj@khu.ac.kr
Young Moon, Ph.D. Korea National Sports University, 2004, Professor, Extraordinary, youngja8743@hanmail.net
Jeoung-Hak Lee, Ph.D. University of Minnesota, 2000, Professor, Sports Marketing, leex0472@khu.ac.kr

Department of Golf MBA Management
Young-Jin Park, Ph.D. University of Minnesota, 1989, Professor, Biomechanics, yjpark@khu.ac.kr
The Graduate School of Journalism and Communication offers both a Master’s degree and non-degree professional training programs. It was established second earliest in Korea as a communication-related graduate school. The school provides a curriculum that focuses on the nuances of the information-based 21st century society. The Master’s degree can be pursued in one of the following three departments.

The Department of Journalism has two majors: broadcasting, and newspapers and magazines. The Department of Strategic Communication has four majors: advertising, public relations, speech and debate, and political communication. Finally, the Department of Cultural Contents includes the majors of mass art, digital visual, and publishing and copyright. Short-term non-degree programs about basic communication studies are offered for all the majors of the school.

Degree Requirements
* At least 24 course units of graduate level credit in journalism & communication courses are required for the Master’s degree.
* Students must pass a qualifying examination.

Courses

Faculty
In-Hee Lee, Ph.D. Rutgers University, 1994, Professor, New Media, ihlee@khu.ac.kr
Chang-Nam Kim, Ph.D. Kent State University, 1995, Assistant Professor, Political Communication & Campaign Management, cnkprmr@khu.ac.kr
Kwang-Jae Lee, Ph.D. Kyung Hee University, 1979, Emeritus Professor, Communication History, leekw@khu.ac.kr
Kyung-Ja Lee, Ph.D. Southern Illinois University, 1977, Emeritus Professor, Communication Theory, kjlee@khu.ac.kr
Kyun-Tae Hahn, Ph.D. University of Texas/Austin, 1987, Professor, Communication Research Methods,
Stepping into the brave new world of the global village, the Graduate School of International Legal Affairs at Kyung Hee University recognizes the need to cultivate first rate students who can specialize in the ever-increasing field of international legalities. Anticipating the social need for legal specialists of the new international level and under Dean Y.J. Lee’s vision, Kyung Hee University designed a program tailored to the needs of global legal specialists and obtained the government’s authorization to establish a graduate school of international legal affairs for the first time in Korea at the end of 1995. The school opened in March 1996.

Focusing on the curriculum integrating genuine academic training and practical practice with top-notch teaching faculty members, the Graduate School of International Legal Affairs will strengthen the social functions of higher education and establish a collaborative relationship between industries and the university. The Graduate School will further conduct a systematic study of the theories and practices in different areas of science, including laws in the fields of international trade, insurance and maritime, intellectual property rights, internet, tax, and legal affairs of the USA and of China, thereby promoting the development of practical business and academic concord. The Graduate School will meet such social demands and develop into a specialized law school both in name and reality.

Degree Requirements

- At least 24 course units of graduate level credit in International Legal Affairs courses are required for the master’s degree and a graduating thesis (U.S. Law major requires 36 credits without a graduating thesis).
- Students must pass a qualifying examination.
- Students (except the U.S. Law students) must fulfill presentation, defense, and documents requirements for the ILA.
thesis committee.
- A thesis advisor can be any faculty member from the ILA department.

Courses

Faculty
Hyo-Back Kang, Ph.D. Taiwan University, 1994, Professor, Chinese Law, khb@khu.ac.kr
In addition, there are over 50 lecturers from various legal professional backgrounds. For instance, along with the faculty professor, many currently practicing lawyers from the best domestic and foreign law firms with the most current practical knowledge and experience teach the 127 classes that the school offers.

Activities and Future Work
- Education and research meeting the needs of the times
- Getting employment at a company or research institute in the relevant sectors after graduation
- Education abroad at foreign universities
- Advancing to a doctoral course

Other Specialties
- Invitation of special lecturers in each department
- International legal affairs seminar, symposium, and lectures on other variant teaching methods
- Preparing to obtain U.S. lawyer qualification
- Special lectures by foreign professors

Special Graduate School

Graduate School of Public Policy and Civic Engagement
Tel : +82 2 961 0131-2, 9240-1 Fax : +82 2 962 1213 E-mail : pnc@khu.ac.kr URL : http://pnc.khu.ac.kr/

The Graduate School of Public Policy and Civic Engagement was established in 2011 by the merger of the Graduate School of Public Administration, which was established in 1980, and the Graduate School of NGOs, which was established in 2000. With the merger, this institution is the first of its kind in the world to specifically pursue public governance in the state and civil society sector.
The Graduate School is committed to playing a leading role in fostering the public good in all social sectors, including local administrative autonomy and global governance fields. To this end, the Graduate School vows to foster talent equipped with theories and practice for fulfilling the doctrine of the inseparability of knowledge and practice. Intelligence
and competencies acquired in the courses are intended for use in pursuing self-development and making a valuable contribution to humankind and society. This Graduate School consists of five departments that offer a total of 12 major courses.

**Studies in Graduate School of Public Policy and Civic Engagement**

**Department of Policy**
The Department of Policy offers three major courses: Public Policy, Security and North Korea Policy, and Public Procurement. The Public Policy course offers basic knowledge on the operation of and policies by public institutions such as the government and corporations.

Interdisciplinary or trans-disciplinary research and lectures are carried out on International Relations, Security Policies of Surrounding Nations, Security Policy Theory, International Organizations and Multi-Party Security Theory, State Strategy Theory, War and Peace Theory, Diplomacy Policy Theory, etc. All these undertakings are aimed at fostering the students’ ability to formulate South Korea’s state security policies.

The Public Procurement course is the only course of its kind in the country and it seeks to foster experts equipped with theories and practice relevant to the Government Procurement Act.

**Department of Medical Service Administration**
The Department of Medical Service Administration offers three major courses: Nursing Administration, Hospital Administration and Public Health Administration.

The Public Administration major aims to cultivate the students’ leadership with a view of becoming leaders in nursing. This seeks to respond to the changing medical environment in this 21st century which requires the development of excellent nursing personnel and the cultivation of new leaders.

The Hospital Administration course aims to foster experts in the field of hospital administration who can understand the rapidly changing medical environment, while predicting and preparing for what the future may hold.

The Public Health Administration course aims to equip students with the core capabilities for Health Sciences research based on a comprehensive understanding of healthcare issues, and to resolve such health issues. It also seeks to foster leaders equipped with global leadership skills in partnership with the community.

**Department of Social Welfare**

The Social Welfare course aims to foster experts in the field of social welfare capable of actively and professionally engaging in all courses, ranging from policy making to provision of specific services with a view to meeting our basic needs and improving our quality life.

The Elderly Welfare course aims to foster experts in the care of elderly people. The course guides the students in appreciating the basic theories and practice of social welfare, and also equips them with professional knowledge and skills. The curriculum is based on the comprehensive interdisciplinary research on Elderly Welfare, with the objective of helping the elderly cope with everyday living and improve their quality of life.

The Care Welfare course aims to foster experts in the field of elderly care capable of using preventive and comprehensive measures for assisting the elderly people. With the rapidly aging society, the course allows students to obtain sufficient knowledge and understanding of the elderly society based on the humanitarian welfare philosophy. A balanced set of relevant professional skills is provided.

**Department of Civil Society and NGOs**
The Department of Civil Society and NGOs offers two major courses: Civic Politics and Culture, and NGO Policy and Management.

We must protect and promote human rights, welfare and abundance achieved by the civic society in the 21st century. We must also realize the alternative values of peace, coexistence, co-prosperity and service. To this end, the Civic Politics and Culture course seeks to explore the philosophical and social-scientific reflection on the state and the market, as well as on civic life values. To effectively push for civic movements, it is imperative that we systematically design and effectively manage NGOs, and consequently develop policies on diverse issues. In this connection, the NGO Policy and Management course is
designed to enable students to cultivate the theories and practical knowledge on non-profit management. This is aligned with the object of identifying the NGOs’ organizational behavior, enhancing the students’ ability to develop policies on and evaluate local and overseas local NGO issues, and effectively achieving the NGOs’ visions and missions.

Department of Global Governance

The Department of Global Governance offers one major course, Global Governance.

In this era of globalization, having an in-depth understanding of international systems, including politics, economy, society and culture from the global governance perspective is essential to be able to respond to the changing world order. This understanding must extend beyond the framework of understanding anchored on the state and nation in order to cope with the 21st century trends. To this end, the Global Governance course seeks to offer an interdisciplinary approach to global governance theories and practice and the global agenda, based on social science and humanities. The course also explores an alternative international order that is human-oriented and sustainable in the global civic society.

Degree Requirements

- Students must complete 32 credits for the Master’s degree, including both core courses and major required courses.
- Students must complete an approved internship and other extracurricular requirements.
- Students must also submit a thesis after passing a qualification examination or acquire 6 more credits for graduation.

Courses

Core Courses

- Theory of Contemporary Administration, Methodology of Social Science, Research of Modern Organization Management, Study on Personnel Administration, Study on Fiscal Administration, Reading in English Original Text
- Special Lecture in Public Theory, Public Policy Analysis, Public Policy Formulation, Public Policy Evaluation, Electronic Government, etc.
- Police Laws, Police Planning, Police Organization Management, etc.
- Nursing Theory, Nursing Administration, Nursing Research, Nursing Counseling, Nursing Information, etc.
- Hospital Planning, Hospital Administration, Financial Management of Health Institutions, Hospital Management Analysis, Personal Administration of Health Institutions, etc.
- Elderly Welfare Theory, Gerontological Nursing, Economics for the Elderly, Health Education for the Elderly, Exercise and Recreation for the Elderly, etc.
Nursing, Elderly Welfare Theory, etc.
Major in Real Estate
Major in Civil Politics - Culture and NGO Policy - Management and Global Governance
Human Society and Modern Civilization, Social Science Methodology, State and Civil Society, Modernity and Self-Identity, Theories of Social Justice, History and Reform, International Relations and Global Civil Society, NGOs and Global Governance, Humanity and the Future of the Global Economic Order, NGOs and the UN, Collective Action and the Public Good, Relations between NGOs and Government, NGO Management, Relations between NGOs and Corporations

Faculty
Dong-Soo Lee, Ph.D. Vanderbilt University, 1998, Associate Professor, Political Science, dslee@khu.ac.kr
Byung-Rok Song, Ph.D. J.W. Goethe University, 1992, Professor, Military Sociology, sbr@khu.ac.kr
Seong-Geun Lee, Ph.D. University of Louisville, 1997, Associate Professor, Real Estate Policy, sungglee@khu.ac.kr
Woon-Ho Kim, Ph.D. Kyung Hee University, 1993, Professor, Management, whkim@khu.ac.kr
Sang-Jun Kim, Ph.D. Columbia University, 2000, Associate Professor, Sociology, sangjun@khu.ac.kr
Hyuk-Sang Sohn, Ph.D. Kyung Hee University, 2006, Assistant Professor, Political Science, hsohn@khu.ac.kr
Hwa-Yong Lee, Ph.D. University of Cambridge, 2000, Associate Professor, Political Science, hwayong2@khu.ac.kr
Tae-Young Kim, Ph.D. Cornell University, 1998, Associate Professor, City Administration, tykim@khu.ac.kr
Dong-Myeon Shin, Ph.D. Bath University, 2000, Associate Professor, Social Policy, dmshin@khu.ac.kr
Tae-Young Yoon, Ph.D. Kyung Hee University, 1992, Professor, Medical, tyoung@khu.ac.kr
Ho-No Ju, Ph.D. Marburg University, 2004, Associate Professor, Law, honorius@khu.ac.kr
Jung-Myung Choi, Ph.D. Kyung Hee University, 1991, Professor, Medical, jmchoi@khu.ac.kr
Sang-Suk Han, Ph.D. Kyung Hee University, 1998, Professor, Nursing, sshan12@khu.ac.kr

Special Graduate School
Graduate School of Tourism
Tel: +82 2 961 0813/0814 Fax: +82 2 961 0811 E-mail: khsb1900@khu.ac.kr URL: http://tourism.khu.ac.kr

The Graduate School of Tourism at Kyung Hee University was established in 2000. The school offers master programs in the following majors: Hotel and Service Industry, Tourism and Leisure Industry, Convention, Exhibition and Event, Culinary and Food Service, Wine and Sommelier, Real Estate.

Department of Hotel and Service Industry
Hotel management has positioned itself as a fast growing area of study in a globalized world that requires new concepts of service and management strategy. We train CEOs in the hospitality industry with state-of-the-art theories and case studies to cope with these changes.

Department of Tourism and Leisure Industry
The people today live as tourists in a world of abrupt changes in production systems caused by de-industrialization. The era of soft tourism will come representing "feeling," "emotion," and "space," in the 21st century while the tourism of the 20th century was of "movement" and "experience." We train creative tourism managers who work hard to prepare for the new era of tourism, which is flexible and more segmented and made to order. We invite the best instructors in the various areas of study including tourism policy, tourism development and planning, tourist agency management, and airlines to
teach our students.

**Department of Convention, Exhibition and Event**

The importance of the convention industry is growing fast promoting cooperation and exchanges between nations in the areas of economy, culture, and tourism. We train professionals to become leaders in the convention industry, planning and managing conventions, convention exhibitions, and trade fairs.

**Department of Culinary and Food Service**

The Culinary and Food Service industry is an integral part of the tourism industry. We train professionals who can contribute to the development of the culinary and food service industry with in-depth knowledge in management and administration.

**Department of Wine and Sommelier**

The Wine and Sommelier industry is an integral part of the foodservice industry. We train professionals who can contribute to the development of the sommelier and wine industry with in-depth knowledge in wine making, food and wine harmony, wine service, wine consulting and sommelier management.

**Department of Real Estate**

Negative view of real estate has been largely reduced due to the market opening the informative system the unified capital and real market. People began to widely recognize the real estate as the resource of the natural wealth and the healthy investment beyond the subject of regulation by the government. Based on the methodical analysis, the advancing real estate market is achieved by the rise of real estate development technique and the introduction of financial technology. The broader professional knowledge is needed because of not only the internal market but the international market also widens its field of activity following the trend of world economy. The curriculum of the department of real estate focuses on imparting a comprehensive understanding of the variety fields that real estate economy, management, development, law, and technology.

**Degree Requirements**

- At least 36 course units of graduate level credit in the Graduate School of Tourism courses are required for the master’s degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation and thesis requirements.

**Courses**


Faculty
Kyung-Mo Ahn, Ph.D. University of Kwang-Woon, 1995, Associate Professor, Management, kmahn@khu.ac.kr

Special Graduate School
Graduate School of Art & Fusion Design
Tel: +82 31 201 2166~7    Fax: +82 31 204 8127    E-mail: afd@khu.ac.kr    URL: http://afd.khu.ac.kr

The Graduate School of Art & Fusion Design is preparing for a progressive educational system in the area of design and art. The graduate school facilitates exchange between the departments and conducts the creative joint research through multimedia technology, high quality design skills, and practical training in the design area. Furthermore, the graduate school aims to cultivate world class experts equipped with excellent abilities in the art and design field by maximizing the
diverse educational effects of related major areas of studies. It also aims to:
- create a new paradigm of fusion culture.
- educate professionals in the era of a new millennium.
- produce experts equipped with practical abilities.
- provide a specialized curriculum to meet the requirements of the information era.

Degree Requirements
To receive the Master of Arts, a student must:
- complete 24 credit units.
- satisfy the general requirements of the school for a professional degree.
- pass the qualifying examination that the graduate school requires.

Courses
1) Department of Space Design
   Environmental Landscape Design
   Landscape architecture is general science and practical art at the same time. Landscape architecture had been defined as it helps us to examine about resources and the system of nature, the world where humans manage lives, to seek the way to maintain the environment, and to study and educate how to plan and design healthy and steady life environment. However, landscape architecture in Korea is not considered as the above, but in a narrow sense. Also, even though design field in landscape architecture should have priority according to its characteristics, many Korean universities do not consider it and classify landscape architecture as planting in the agriculture department. The environment landscape architecture design course at our graduate school considers and reflects environment in landscape architecture for the sake of the environment and it is the only higher educational institution that emphasizes exterior design to train environmental landscape architecture design experts.
   Curriculum
   Theory of Environmental Design, Design and Expression, Space, Form & Composition, Environment & Landscape Planning Studio, Landscape Design, Seminar in Environment & Landscape Architecture, Theory of Indoor Environment & Landscape Design
   Display Flora Design
   The Graduate School of Art & Fusion Design at Kyung Hee University researches social characteristics and artistry and collects/analyzes accurate design information. Among the fields in space design, there is a master’s course, ‘Display & Flora Design’ to establish a design field for the harmony of tradition and modern, space design and flower art. Therefore, we target to train a new field educator who has combination of the practical technique with intelligence. Display & flora design uses natural objects as the main material, which matches flower art and display & flora design with recognition of the absolute beauty of nature and knowledge. It could also be called ‘lifestyle design’ since it could be closely applied in livelihood. Recently, flower art vigorously participate in display, production design, and interior design. In 21st century, all kinds of art and design are environmental-friendly, which makes the future of display & flora design that completes the nature and the formative arts much brighter.
   Curriculum

2) Department of Ceramic & Glass Art
   Ceramic & Glass Art Design
   Since the late industrial society of 21st century is information-based society, the function and role of formative art is essential. These days, new modeling pursues substantial combination between art and technique. It also requires the social functions of art and changes that are based on originality. Under these circumstances, our ceramic glass art department trains fusion industrial artists based on creating modern industrial art under fusion total design.
Our goal is to train students to become talented leading figures of future-oriented ceramic glass art development in Korea.

Curriculum
Ceramic Trend Research, Ceramic & Glass Fusion Research, Casting Research, Ceramic Design Studio, Blowing, Cold Work, Materials Research, Ceramic Sculpture Studio, Lamp Work

3) Department of Fusion Media Design

Visual Media Design
A designer should have a wide vision in analyzing design trends that rapidly changes due to such developments as the Internet and new technologies. From designer’s point of view, this department program aims into develop and create a new fusion style, that is, a design from one specific form transferred to a different one.

Digital Moving Image Design
Since the movie was invented in 1895 by the Lumiere brothers, visual media has developed very rapidly. Not only for entertainment purposes, visual media has also become the main medium for communication such as news, documentary, and so on. Recently motion-picture art has been very popular and distributed more widely due to developments in technology and the Internet-so that its territory has expanded to non-professionals. It is very important to obtain the ability to express one’s ideas in art-work using technologies that give entertaining factors especially when the trend is from verbal language to visual communication.

Due to increasing demand, our program has extended to cover sophisticated and practical film-making including documentary courses that deal with all aspects of visual-arts from planning to final editing. This well organized program will enable students to understand and properly use digital technology, when they produce and edit stories.

Curriculum
Communication Sketching, Illustration Workshop, Advertising, Cyber Character Design, Moving Typography, Portfolio Workshop

4) Department of Fashion Art

By teaching professionally and systematically on modeling factors and principles with new perspective of “fashion in design,” the Graduate School of Art And Fusion Design seeks to cultivate fashion experts modern society demands. In the future, the apparel industry will need to go beyond a concept of “clothing” that simply protects the body comfortably and makes one look beautiful, and create a sense of fashion that produces continuously-changing new images. To meet this demand, fashion art major offers studies on woman’s wear, man’s wear, children’s wear, wedding dresses, knitwear, make up hair, accessory designs and home furnishing with fashion design as the general framework, and, in order to cultivate talents that can recreate these various fashion products with creative concepts and images, it offers a special master program.

Goals
Fashion design, in a modern social structure which has become pluralized and specialized, has become a field which is not satisfied with single items or unit designs. Under fashion trends referred to as “total fashion,” the educational goal of the fashion art major is to foster specialists in total fashion coordination who can create original concepts and images in the various fields of display, advertising, broadcasting, cinema, theater, and events by applying original designs which are standard.

Activity and Direction
This curriculum aims at fostering specialized stylists in areas related to fashion including living, art, and culture such as fashion business related coordinators, department store displayers and shop masters, advertisement stylists, cinema and theater agency specialized stylists, event agency show specializing stylists, broadcasting program specializing stylists, and specialized image consulting company stylists.

Curriculum
History of Fashion Design, Fashion Styling
Fashion Sketch, Fashion Coordinator
Fabric Art, Topic on Fashion Material
Analytics of Fashion Trend, Make up Hair, Fashion Merchandising
Fashion Studio, Stage Costume
5) Department of Art and Theater Management

Keeping pace with global tendency that is throwing a spotlight on concerns about cultural arts at large, we now greet a new period in which a work of art is recognized as content ware of cultural industry, not just as simply personal and aesthetic creative activity. With this in mind, this major has the purpose of training art administrators and policymakers who study administrative plans to activate artistic action, art management that induces business-savvy in the art, the public enjoy the work of art, and then establishes re-productive structure of the art on the basis of this, and human resources of cultural arts policy and professional planner who can plan and reify exhibition, performance, event and so on to be appropriate to detailed features of each genre. Also by inducing updates of cultural arts by information-oriented period, it aims to train worldwide competitive experts of cultural arts such as theory, criticism, policy, management, planning, and so on.

Curriculum

- Theater Management, Introduction to Arts Management, Theory of Cultural Arts Planning, Theater Organization and Performance Regulation, History and Structure of Theater, Theater Budget and Fundraising, Understanding of Stage Art, Art Marketing and Publicity Strategy, Practice of Performance Planning
- Art Planning & Management, Introduction to Arts Management, Theory of Cultural Arts Planning, Cultural Arts and Sociology, Strategy Planning and Production Management, Practical Affairs Theory for Event, Art Organization Programming, Criticism Seminar, Practice of Cultural Arts Planning

6) Department of Performing Art

Jazz & Contemporary Music

The ultimate goal of the program is to create new music of the 21st century through a study of classical music, Asian traditional music, popular music, and jazz. While the program emphasizes popularity and commerciality of music, the students are also encouraged to combine them with experimental ideas for various classes and musical activities offered in the program.

The curriculum not just includes all of the standard coursework, but is designed to prepare students for a personalized and independent career in the music industry. The skills acquired in the classroom and in practical situations qualify the graduates for a number of careers including professional composer, arranger, performer, music producer, film music director, recording engineer, sound designer, etc. Graduates of the program are also qualified to pursue educational occupations such as music instructor, private teacher, and professor. To extend practical aspects of the program and offer more career opportunities, the school investigates current trends in the music business and develops a new curriculum every year. In addition to the curriculum, the school provides master classes and private clinics with high-leveled music experts to continually offer direct connections between the students and the heart of today’s music industry.

Curriculum

- Jazz Ensemble, Music Production, Jazz Style Analysis, Jazz Piano Class, Film Scoring, Virtual Instrument, Rehearsal Technique, Sound Design, Contemporary Music Analysis, Ensemble, Advance Conducting, Popular Music Style Analysis, Performance, Computer Music, Hard Recording Technique, Advance Reharmonization, Jazz Arranging Technique, Commercial Music Composition, Music Education, Composition, Sound Design, Conducting, Arranging Technique, Jazz Orchestration Technique

Theater & Film

The Theater and Film major at Kyung Hee University was founded in order to respond to our society’s growing need to create various fields of arts. This major provides the excitement of working with experienced artists and scholars. In theater, we educate not only classic theatre study but also musical theatre, educational theater, and performance. In film, it provides omni-directional education. The department offers the most wide-ranging and inclusive artistic and academic film and theater curriculum in the country. Furthermore, beginning 2008 to produce multi-talented actors, we are providing the most suitable educational environment allowing students to utilize a black-box theater, a new theater that holds 600 seats in a new arts house, a movie studio which is about 60 pyeong (pyeong = 3.3sq. yd), a recording room, an acting studio, a film making studio, a costume room, a dressing room, a prop room, a storage room for scenery and props, and a waiting room. In particular, the newly built theater and studio are also utilized during classes.

We provide future theatre artists and film-makers with a deep understanding of the principles and practices of their own artistic mediums. Students can make career transitions as: Actors, Producers, Directors, Artistic Directors, Film Editors, Script Writers, Script Editors, Playwrights and Dramaturgic, Stage Managers and Technicians. Jobs relating to film and
theatre may extend beyond the boundaries of performance and production.

Curriculum
- Theatre
  Stage Acting, Stage Directing, Musical Theatre Study, Musical Theatre Project, Educational Theatre, Educational Theatre Project, Performance Study, Performance Project
- Film
  Film Theory, Analysis of Film, Study of Asian Film, Study of Korean Film History, Film Production, Film Directing and Editing, Project Study 1, Project Study 2

Faculty
Dong-Eun Kim, Master of Advanced Studies, Johannes Kepler University Linz, 1999, Assistant Professor, Arts and Media Management, senam406@khu.ac.kr
College of Humanities

Department
Korean Language and Literature
History
Philosophy

School of English
English Language and Linguistics
English Language and Literature
English Interpretation and Translation
What is Korean Language and Literature?
Korean language and literature are the subjects of our department’s study. Korean language is the mother tongue of the Korean people and includes the ancient tongue, modern tongue, and dialects. Korean literature means all literature works which have been written in Korean language. As previously stated, the Korean language is the ancient and modern tongue including the dialects; therefore Korean literature is divided into two areas: Korean modern literature and classics.

Korean Language and Literature at Kyung Hee
The Department of Korean Language and Literature was inaugurated in 1955 when Kyung Hee was officially accredited as a university. The Department of Korean Language and Literature has produced many writers who are leaders in Korean literary circles. Our objectives include training creative scholars and writers who will raise Korean literature to an international level and enhance the value of Hangul (Korean alphabet) and Korean. For those objectives, we document the Korean cultural inheritance written in Korean and Chinese, and conduct research into Korean language and literature. The Department of Korean Language and Literature includes three majors: Korean linguistics, Korean classical literature and Korean contemporary literature.

Degree Requirements
To receive the Bachelor of Arts in Korean Language and Literature, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 30 units of Required Courses.
- complete 69 units of Korean Language and Literature.
- complete 31 units stated in the common studies program and Humanities/Social Science Electives.

Courses
Year 1
- Studies of Modern Literature, Introduction to Korean Linguistics

Year 2

Year 3
- A History of the Korean Language, History of Old Korean Literature, History of Modern Korean Literature I, History of

Year 4
Studies of Korean Morphology and Syntax, Theories of Old Korean Literary Writers, Playwrighting & Play Production, Literary Sociology, Korean Semantics, History of Classical Literary Thoughts, Theories of Ancient Literature, Studies on Post War Korean Literature

Careers and Graduate Destinations
In modern literature, students gain knowledge of Korean literature through readings and analyses of literary works. Students are also provided with opportunities to engage in creative writing. In classics, students learn to analyze and study literary works from ancient times to the so-called “Renaissance” of Korean literature history. In linguistics, students engage in linguistic studies of the Korean language in its various stages of development throughout history from the ancient tongue to the modern form of today. There are many future careers open to graduates of our department. After graduation, the majority of students enter the education field in middle or high schools. Furthermore, there are many students who work in media companies including the press, magazine, newspaper and broadcast. Also a large number of students go on to graduate school as the next stage of education.

Faculty
Jae-Hong Kim, Ph.D. Seoul National University, 1981, Professor, Modern Literature, flutekim@khu.ac.kr
Jin-Yung Kim, Ph.D. Seoul National University, 1983, Professor, Old Korean Literature, jin@khu.ac.kr
Ki-Lyuk Kim, Ph.D. Yonsei University, 1987, Professor, Korean Linguistics, kkim@khu.ac.kr
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Jong-Hoi Kim, Ph.D. Kyung Hee University, 1989, Professor, Modern Literature, jonghoi@khu.ac.kr
Hye-Sil Choi, Ph.D. Seoul National University, 1991, Professor, Modern Literature, choi4626@khu.ac.kr
Jung-Sup Kim, Ph.D. Kyung Hee University, 1995, Professor, Korean Linguistics, jskim@khu.ac.kr
Jong-Jae Lee, Ph.D. München University, 1995, Professor, Old Korean Literature, hogom@khu.ac.kr
Ju-Taek Park, Ph.D. Kyung Hee University, 1999, Associate Professor, Modern Literature, sesan@hanmail.net
Young-Hun Ahn, Ph.D. Kyung Hee University, 1998, Associate Professor, Old Korean Literature, yhnahn@khu.ac.kr
Ju-Hee Lee, Ph.D. University of Essex, 2003, Assistant Professor, Linguistics, jhlee@khu.ac.kr
Duk-Soon Seo, Ph.D. Kyung Hee University, 1996, Assistant Professor, Modern Literature, fog99@hanmail.ne

College of Humanities
Department of History
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What is History?
We can say that history is the record of human life over a long period of time. It may be documents written of the living of mankind. So to speak, history is both history as fact and history to be written. We can come in touch with history
indirectly through the results which historians have researched. History is expressed as ‘歴史’ in China from ancient times. ‘歴’ means variable feature in the stream of long time. So to speak, it means human life which has changed through the stream of long time. And ‘史’ means both the document writer and the contents. Therefore, ‘歴史’ means both History as fact and History to be written.

**History at Kyung Hee**
We educate creative and intelligent talents as world citizens through systematic research of mutual Korean history, Oriental history, and Western history. Not only are we interested in historical claim of student, but also in strengthening historical education for Humanity and training as social being. We have created a new research curriculum for historical & cultural studies including Archaeology, Museology, Collection Management, Remains Research, and Practical Training.

**Degree Requirements**

To receive the Bachelor of History, a student must:
- complete a minimum of 130 credit units.
- complete 12 cultural course credit units in the department.
- complete 21 credit units of Required Courses.
- complete 33 credit units of Optional Major Courses.
- complete 3 credit units of each 8 Cultural Courses.
- complete another 3 credit units of each 2 & 8 Cultural Course to pass C.R.S. or get some certification.

**Courses**

**Year 1**
Introduction to Korean History, Introduction to Oriental History, Introduction to Western History, Outline of History, Reading in the Korean History, Archaeology

**Year 2**
Ancient & Medieval History of Korea, Oriental Ancient & Medieval History, Reading in the Western History, Western Ancient History & Culture, Remains Site Research, History of Chosun Dynasty, Reading in the Oriental History, Oriental Modern History, Western Medieval Age & European Culture, Western Modern History, Remains Research

**Year 3**
Korean Modern & Contemporary History, Oriental Thought & Understanding of History, Western Socio-Economical History, Western History & Art, Museology, Study on Korean Ancient Documents, Understanding of Japanese History, Western Historical Thought & Understanding, Cultural Inheritance in China, Collection Management

**Year 4**
Korean History & Historical Understanding, Oriental Contemporary History, Western Contemporary History & Imperialism, Research & Exercise of History, Special Lecture on Korean History, Special Lecture on Oriental History, Western Regional History, Practical Training, Graduation Thesis

**Careers and Graduate Destinations**
We study both historical theory and exercise. After the course, students can get a job in many fields. For example, a professor at a university, teacher at a high school, researcher at an institute, journalism, tourism, enterprise, etc.

**Faculty**
Tae-Sook Lee, Ph.D. University of California, Berkeley, 1986, Professor, Western Modern History, tslee2338@paran.com
In-Sung Cho, Ph.D. Sogang University, 1991, Professor, Korean Ancient History, cis5785@hanmail.net
Won-Joon Yoo, Ph.D. Chinese Culture University, 1991, Professor, Oriental Medieval History, wjyoo@khu.ac.kr
Ji-Ho Jeong, Ph.D. Tokyo University, 2001, Associate Professor, Oriental Modern History, jjh@khu.ac.kr
Jin-Bin Park, Ph.D. University of Pennsylvania, 2002, Associate Professor, U.S. History, jbinp@khu.ac.kr
Chun-Taek Seong, Ph.D. University of Washington, 2001, Associate Professor, Prehistoric Archaeology, haeram@khu.ac.kr
What is Philosophy?
The word "philosophy" is from Greek and means "love of wisdom". Philosophy examines the grounds for fundamental beliefs and analyzes the basic concepts employed in the expression of such beliefs. That is, philosophy is a domain of study of the ultimate reality, causes, and principles underlying our being and thinking. Philosophy falls into three major branches: Epistemology, Ontology, Theory of Value (ethics and aesthetics). Epistemology investigates the nature of knowledge and the process of knowing. Ontology (Metaphysics) inquires into the existence and existential nature of everything of the universe. Ethics deals with the problem of right conduct and aesthetic attempts to determine the nature of beauty and the criteria of artistic judgment. The Eastern world is another source of philosophical thoughts. Most eastern philosophy was founded on religious ideas and contains rigorously developed systems. Buddhism, Confucianism, Hinduism, Taoism, Jainism are representative eastern thoughts of philosophy. Though there are differences between eastern and western philosophy, both commonly explore the essential and fundamental areas of all knowledge. So, philosophy is called "science of science” or "studies not for knowledge, but for knowledge itself.”

Philosophy at Kyung Hee
The Department of Philosophy was founded in 1979, under the name of National Ethics. The name was changed to Department of Philosophy in 1987. The department has 5 faculty members, roughly 160 undergraduate students, and about 20 graduate students.
The Department offers programs of study leading to the degrees of Doctor of Philosophy, Master of Arts, and Bachelor of Arts. The programs emphasize comparative philosophy, metaphysics, ethics, history of philosophy, Buddhism, and Confucian philosophy. The program leading to the Bachelor of Arts emphasizes training for the fundamentals of scholarly research and teaching.
The great advantage of the Department of Philosophy is that it offers academic excellence on a personal scale. Although the Department is still young and relatively small, intellectual life within the Department can be both intimate and challenging. At the same time, it is possible – and in fact quite common – for students to reach out to other disciplines for scholarly growth. In sum, it is a department that spans the universe of knowledge yet provides a wealth of opportunities for individual achievement and recognition.
Seminars and colloquia on various issues and topics are scheduled regularly, consisting of talks by visiting and resident philosophers and other humanists. These constitute an important component of the student educational program.
The Department awards various types of fellowships and scholarships to help students meet the cost of education. These awards are intended to further the recipients’ education and recipients are expected to devote full time to their studies and to any required research and training.
Degree Requirements
To receive the Bachelor of Arts in Dept. of Philosophy, a student must:
1) Complete required units as follows
   a) Students who major in philosophy should:
      • complete a minimum of 130 credit units.
      • satisfy (minimum) 66 units of Major Courses for philosophy as follows: complete 21 units of Prerequisite Courses for philosophy complete 45 units of Technical Electives for philosophy.
      • satisfy (minimum) 38 units of Cultural Studies as follows: complete 14 units of basic curriculum complete 15 units of united curriculum complete 9 units of departmental curriculum.
   b) Students who minor in philosophy should:
      • complete a minimum of 130 credit units.
      • satisfy (minimum) 21 units of Prerequisite Courses for philosophy.
      • satisfy (minimum) 38 units of Cultural Studies as listed above in a).
   c) Students who double major in philosophy should:
      • complete a minimum of 130 credit units.
      • satisfy (minimum) 48 units of Major Courses for philosophy as follows: complete 21 units of Prerequisite Courses for philosophy complete 27 units of Technical Electives for philosophy.
      • satisfy (minimum) 38 units of the Cultural Studies as listed above in a).
2) Satisfy a graduate examination through a graduation thesis

Courses
Year 1
Complete 3 cultural studies in philosophy department, such as Logic & Thinking, Base of Eastern Philosophy, and Base of Western Philosophy.

Year 2, 3, 4
Complete 7 prerequisite courses of philosophy, such as History of Chinese Philosophy, History of Korean Philosophy, Introduction to Buddhism, Greek Philosophy, Modern Philosophy of West, Epistemology, and Ethics.
And complete more than 15 selective courses of philosophy (9 selective courses needed for a multiple major, but nothing needed for a minor), related to Metaphysics, Taoism, Confucianism, Social Philosophy, Aesthetics, German Philosophy, French Philosophy, Philosophy of Science, Analytical Philosophy, Historical Philosophy, Hindu Philosophy, Teaching Methodology for Discourse, and many other realms.

Careers and Graduate Destinations
There are many routes for graduates of our department. Many students choose to enter the education field in middle or high schools. Others occupy philosophy-related realms, such as communication areas, and publishing circles. Most students get jobs in companies of various fields and have active careers. Not a few graduates go on to the next stage of education, i.e. master and Ph.D. degree of philosophy in various universities. And some students choose another field of graduate course, such as sociology, politics, theology, economics, and literature. Our department offers students a strong program of developing requisite abilities — critical thinking faculty, language ability, and personality — for being an excellent agent in society.

Faculty
Jung-Sik Choi, Ph.D. Paris 3 Sorbonne Nouvelle, 1992, Professor, Greek and French Philosophy, jschoi@khu.ac.kr
Soo-Jung Kim, Ph.D. Seoul National University, 1991, Professor, Confucianism, sujung@khu.ac.kr
Woo-Sung Huh, Ph.D. University of Hawaii, 1988, Professor, Buddhism, huh111@hitel.net
Yoen-Kyo Jung, Ph.D. University of Rochester, 1992, Professor, Ethics, ykjung@khu.ac.kr
In-Cheol Park, Ph.D. Universitaet Wuppertel, 2000, Associate Professor, German Philosophy, heimwelt@khu.ac.kr
Suk-Yoon Moon, Ph.D. Seoul National University, 1995, Professor, Korean Philosophy, symoon@khu.ac.kr
Sung-Ho Choi, Ph.D. Seoul National University, 2003, Associate Professor, Philosophy of Science, choise80@khu.ac.kr
What is English Language and Linguistics?

English linguistics is the scientific study of the English language. Modern linguistic theory aims to understand the nature of the human knowledge of language. It does this through careful examination of the forms and structures found in natural language. English linguistics tries to answer this question focusing on the study of English. Would you like your studies to put you at the center of the intellectual universe? Are you interested in solving puzzles? Do you find it difficult to decide between the Arts and the Sciences? Would you like to understand how the human mind works? Do you find languages fascinating? If you answered 'yes' to any (or all!) of these questions, perhaps you should think about studying English linguistics.

English Language and Linguistics at Kyung Hee

The English Language and Linguistics major is designed to give students a basic understanding of the core areas of English Language and Linguistics: phonetics and phonology, syntax, semantics pragmatics, discourse, sociolinguistics, language acquisition, language teaching, and computational linguistics. Building on this foundation, it is intended that students will be able to tailor the program to meet their personal English linguistic interests either by focusing on one particular area, or by diversifying into other branches.

Degree Requirements

To receive a Bachelor of Arts Degree in English Literature, a student must:

• complete a minimum total of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 18 units of Major-required Courses offered by the School of General Education.
• complete 48 units or more of Elective Courses offered by the English Literature Program.
• complete 29 units or more of General Education Courses designated and specified by the School of General Education.
• acquire a minimum English proficiency test score (TOEIC 850; TOEFL IBT 92; TOEFL CBT 237) or pass the graduate exam provided by the program.

Courses

The major gives students an education in various aspects of English. At the core are courses about sounds (phonetics and phonology), word formation (morphology), sentence structure (syntax), meaning (semantics and pragmatics) and the history of English. You will also be given the opportunity to explore other themes, such as language acquisition, language processing, language teaching, computational linguistics.

Careers and Graduate Destinations

The future for English linguistics majors is promising. Many jobs related to the humanities are available for graduates with proficiency in English: journalist, TV producer, manager, C.E.O., translator, writer, English teacher, college professor, and diverse jobs in such fields as cultural studies, fiction, criticism, poetry, drama, performance, and film studies.
Faculty
Hak-Sung Han, Ph.D. University of Texas at Austin, 1987, Professor, Syntax, hakhan@khu.ac.kr
Sei-Kyung Cho, Ph.D. University of Illinois at Urbana-Champaign, 1992, Professor, Applied Linguistics, skcho@khu.ac.kr
Kyu-Hyun Kim, Ph.D. University of California, Los Angeles, 1992, Professor, TESL/Applied Linguistics, kkhkim@khu.ac.kr
Jong-Bok Kim, Ph.D. Stanford University, 1996, Professor, Syntax/Semantics/Computational Linguistics, jongbok@khu.ac.kr

What is English Language and Literature?
Literature is a form of human expression. English Literature means literary works written in English whose values lie in the beauty of form or emotional effect. Why do we study English Literature? As an art, literature gives us pleasure, elevates us, transforms our experiences, and functions in society as a continuing critical symbolic values.

English Language and Literature at Kyung Hee
The English Literature Program offers a wide range of courses in: (1) English and American Literature and the related areas of the humanities and; (2) English and American cultures. Literature courses focus mainly on the close reading of literary and cultural texts, the study of particular authors and genres, the critical theories and methods, and the relationship of literary works to other areas of the humanities.

Degree Requirements
To receive a Bachelor of Arts Degree in English Literature, a student must:
* complete a minimum total of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 18 units of Major-required Courses offered by the School of General Education.
* complete 48 units or more of Elective Courses offered by the English Literature Program.
* complete 29 units or more of General Education Courses designated and specified by the School of General Education.
* acquire a minimum English proficiency test score (TOEIC 850; TOEFL IBT 92; TOEFL CBT 237) or pass the graduate exam provided by the program.

Courses
Introduction to English Literature, Poetic Imagination and Society, Feminism and Literature, Background of English Literature, English Drama, Modern Drama, Introduction to American Studies, Sociology of Literature, Study of Narratives, Shakespeare 1, Shakespeare 2, Theories of Criticism, Literary Criticism, Romance Literature, English Prose, English Novel, American Fiction, Popular Literature and Bestsellers, Literature and Utopia/Dystopia, English Literature and Translation, Anglo-American Minority Literatures, Reading Critically, Major Writers, Literature and Journalism, Modern English and American Poetry, Comparative Literature, Western Civilization, Literature and Film Studies,
Classics of the East/West and the Postmodern, Special Topics in English Literature, Studies in Cultural Theories

Careers and Graduate Destinations
The future for Literature majors is promising. Many jobs related to the humanities are available for graduates with proficiency in English: journalist, TV producer, manager, C.E.O., translator, writer, English teacher, college professor, and diverse jobs in such fields as cultural studies, fiction, criticism, poetry, drama, performance, and film studies.

Faculty
Kevin O’Rourke, Ph.D. Yonsei University, 1982, Emeritus Professor, Korean and English Literature, seoulkor@hotmail.com
Jung-II Doh, Ph.D. University of Hawaii, 1981, Emeritus Professor, English Literature, jidon@khu.ac.kr
Young-Soo Ahn, Ph.D. Kyung Hee University, 1983, Emeritus Professor, English Literature, young@khu.ac.kr
Kyung-II Park, Ph.D. Kyung Hee University, 1987, Emeritus Professor, English Literature, Khpark@khu.ac.kr
Jum-Suk Yeon, Ph.D. University of the Philippines, 1979, Professor, English Literature, jsyeon@khu.ac.kr
Teck-Young Kwon, Ph.D. University of Nebraska, 1980, Professor, English Literature, tkwon@khu.ac.kr
Jung-Ai Kim, Ph.D. University of Santo Thomas, 1981, Professor, English Literature, jakim@khu.ac.kr
Chang-Sup Song, Ph.D. Northern Illinois University, 1993, Professor, English Literature, cssong@khu.ac.kr
Yu-Mi Yang, Ph.D. University of California, 1993, Professor, English Literature, yyang@khu.ac.kr
Jung-Wan Yu, Ph.D. The City University of New York, 2004, Associate Professor, English Literature, jyu2@khu.ac.kr
John Eperjesi, Ph.D. Carnegie Mellon University, 2000, Assistant Professor, English Literature, john.eperjesi@gmail.com
Suk Kim, Ph.D. New York University, 2006, Full-time Lecturer, English Literature, askpeer@gmail.com

College of Humanities

English Interpretation and Translation
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What is English Interpretation and Translation?
The Program in Interpretation and Translation is designed to help the students develop necessary translation and interpretation skills in addition to understanding the basic theoretical contents. The Program aims to educate and produce interpreters and translators through practical training and provides the students with an opportunity to acquire professional knowledge and skills of interpretation and translation through regular classes and mock conferences.

English Interpretation and Translation at Kyung Hee
The Program in Interpretation and Translation at Kyung Hee focuses on a practical application of the English language. The faculty is composed of the program director, a professor of interpretation and translation, and other professional interpreter and translator professors, who have been involved in organizing, interpreting and translating at a diversity of international conferences.
Degree Requirements
To receive the Bachelor of Arts in English Interpretation and Translation, a student must:
• complete a minimum of 130 credits.
• satisfy the general requirements of the School of English for academic degrees.
• complete 18 credits for required courses.
• complete 48 credits for electives of the English Interpretation and Translation Program.
• complete 29 credits or more of General Education courses designated and specified by the School of General Education.
• acquire a minimum English proficiency test score (TOEIC 850; TOEFL IBT 92; TOEFL CBT 237) or pass the graduate exam.

Courses
The curriculum includes Introduction to Interpretation and Translation, Note-Taking, Korean-into-English Consecutive Interpretation, English-into-Korean Consecutive Interpretation, Korean-into-English Simultaneous Interpretation, English-into-Korean Simultaneous Interpretation, Sight Translation, Script Translation, Literary Translation, Advanced Translation, Public Speaking, Intercultural Analysis, Current Affairs Translation, Technical Translation, Media Translation, Economics and Trade Translation, Mock Conference, and other related courses.

Careers and Graduate Destinations
On the basis of the skills that they have acquired from their undergraduate study, students can have a variety of career opportunities after graduation, including study abroad, admission into a graduate school of interpretation and translation, the media, trading companies, hotels, and professional interpreters and translators.

Faculty
Haeng-Il Yom, Ph.D. Columbia University, 1993, Professor, Interpretation and Translation, hiyom@khu.ac.kr
Mi-Kyung Lee, Ph.D. candidate, Hankuk University of Foreign Studies, 1991, Assistant Professor, Interpretation and Translation, lee_kye@hotmail.com
College of Politics and Economics

Department
Political Science
Political Administration
Sociology
Economics
International Business and Trade
Journalism and Communications
What is Political Science?

The Political Science major is concerned with the theory and practice of politics and the analysis of political systems and political behavior. Political Scientists study to reveal the relationships underlying political events and conditions. The undergraduate curriculum of the Department of Political Science is structured to develop an understanding of the dynamics and institutions of political life, to learn the methods of empirical research and analysis, and to educate a prepared citizen for the society.

Political Science at Kyung Hee

The oldest of its kind in Korea, the Department of Political Science at Kyung Hee University accepted its first students in 1955. Since then, the department has become a leading faculty of political science in Korea, training graduates who have become leaders in both the public and private sectors. The department aims to educate students in the basic theories and practices of politics, both domestic and international, so as to prepare them to take on leading positions and roles in the public sector. As such the curriculum focuses on teaching the students analytical tools and skills which will enable them to understand and analyze politics and political behavior as well as the institutions and processes through which public policy is formed in different political systems. The curriculum is divided into four subfields: political thoughts and theory, comparative politics, international relations, and Korean politics.

Currently, there are 8 faculty members and some 50 undergraduate students in the department. The department runs a special program for those students preparing to work for the citizen sphere.

Degree Requirements

The requirements for the intensive single major track include:
- 19 courses in Political Science courses (57 credits): 7 required courses (21 credits) and 12 elective courses (36 credits).
- a graduation thesis (this may be waived if a certain level of English proficiency is approved).

The requirements for the dual-major track include:
- 13 courses (39 credits) in Political Science including 7 required courses (21 credits) and 6 elective courses (18 credits).
- a graduation thesis (this may be waived if a certain level of English proficiency is approved).

Courses

Year 1
- Introduction to Political Science, Introduction to Public Administration, Introduction to Sociology, Introduction to Law, Logic and Thought

Year 2
- Comparative Politics, Western Political Thoughts, Korean Politics, International Relations, Korean Diplomatic History,
- Introduction to the Study of Political History, Western Diplomatic History, Political Process, Western Political Thought
  in the 19th Century

Year 3
- Methodology of Political Research, Foreign Policy Analysis, Women and Politics, Citizen and Politics, Introduction to
  Political Economy, Public Opinion and Politics, Japanese Politics, International Relations in East Asia, Political
Development
Year 4
Korean Political Thought, International Organization, Contemporary Political Theory, American Politics, Current Issues of International Relations, Oriental Political Thought, Political Ideology, Political Philosophy

Careers and Graduate Destinations
The vast majority of the graduates enter public service upon graduation, including foreign service, political parties, law, and the media, while a large number also join the private sector. In particular, not a few graduates work for NGO affiliations. Some students who want to study political science deeply can enter graduate programs for the M.A. degree or Ph.D. degree. It is noticeable that some graduates stay at foreign universities around the world.

Faculty
Seung-Hyun Paek, Ph.D. University of Louisiana, 1989, Professor, Political Philosophy, shbaek@khu.ac.kr
Soung-Ho Lim, Ph.D. M.I.T., 1995, Professor, Comparative Politics, limsh@khu.ac.kr
Eui-Young Kim, Ph.D. University of Michigan, 1997, Associate Professor, Comparative Politics, euiyoung@khu.ac.kr
Suk-Won Soong, Ph.D. Kyoto University, 2000, Assistant Professor, Comparative Politics, j60w0178@khu.ac.kr
Hyun-Suk Yu, Ph.D. Northwestern University, 1995, Professor, International Relations, hsyu@khu.ac.kr
Hyun Kim, Ph.D. City University of New York, 1996, Professor, International Relations, hyunkim@khu.ac.kr
Seong-Yi Yun, Ph.D. Ohio State University, 1997, Professor, Comparative Politics, yun31@khu.ac.kr
Jong-pil Chung, Ph.D. Syracuse University, 2005, Instructor, Government and Politics of China, jongpil@khu.ac.kr
Ji-whan Yun, Ph.D. University of California, Berkeley, 2000, Full-time Lecturer, Comparative Politics, jiwhanyun@gmail.com

College of Politics and Economics
Department of Political Administration
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What is Public Administration?
Public administration covers the government and the administrative process as a means of accomplishing public service; it also focuses on the community (world, national) as setting the relation of culture to administration.

Public Administration at Kyung Hee
There is a growing need for persons professionally trained to bridge education, the social sciences, and public policy-making, persons who will teach and carry out research in academic and non-academic settings, and persons who will occupy strategic positions in government and non-government agencies where policies are directed toward the development of human potential. The program in public administration, founded in 1960, is designed to meet this need. Its aim is to provide graduates who can make unique contributions in a wide range of positions.

Degree Requirements
The requirements for the intensive single major track include:
- 19 courses in sociology courses (57 credits): 7 required courses (21 credits) and 12 elective courses (36 credits).
a graduation thesis (this may be waived if a certain level of English proficiency is approved).
The requirements for the dual-major track include:
* 13 courses (39 credits) in sociology including 7 required courses (21 credits) and 6 elective courses (18 credits).
* a graduation thesis (this may be waived if a certain level of English proficiency is approved).

Courses

**Year 1**
Introduction to Political Science, Introduction to Public Administration, Introduction to Sociology, Introduction to Law, Logic and Thought

**Year 2**
Quantitative Analysis in Public Administration, Organization Theory, Research Methods in Social Science, Public Management Information System, Introduction of Administrative Law, Constitutional Law

**Year 3**
Financial Administration, Public Policy, Local Administration, Human Relation, Comparative Administration, Urban Administration, Welfare Administration, Regional Development

**Year 4**
Development Administration, Special Topics in Public Administration, Policy Evaluation, Public Administration in Korea, Public Enterprise, Special Issues in Public Policy

Careers and Graduate Destinations
Graduates in public administration can become a career official and enter public service through the national administration examination. We provide students who take the national examination with a class called Sung Ji Yun. Our graduates have worked in public enterprise, Congress, law, private sector, non-governmental organizations, and many other fields. Students with a Bachelor of Arts degree can continue their studies in a graduate school.

Faculty
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What is Sociology?
Sociology is the disciplined effort to understand society, social and cultural relations, the social institutions, and the persistent patterns of social behaviors that characterize all social life. The sociology program prepares students for professional work in the social sciences and also provides them with the tools to make sense of aspects of social life.

Sociology at Kyung Hee
Founded in 1988, the Sociology Department at Kyung Hee University is designed not only to provide students with a firm foundation in the discipline but also to encourage students to pursue their particular interests. The department’s curriculum has emphasized students’ strong quantitative analytical skills and methodology.

There are two academic tracks leading to the B.A. in sociology major. The intensive single major track provides more comprehensive introduction to sociological concepts, theories, and methods, and prepares students for graduate study or for professional work in the area. The dual major track - sociology with another major - prepares students for more general applications.

Degree Requirements
The requirements for the intensive single major track include:
- 22 courses in sociology courses (66 credits): 8 required courses (24 credits) and 14 elective courses (42 credits).
- a graduation thesis (this may be waived if a certain level of English proficiency is approved).

The requirements for the dual-major track include:
- 16 courses (48 credits) in sociology including 8 required courses (24 credits) and 8 elective courses (24 credits).
- a graduation thesis (this may be waived if a certain level of English proficiency is approved).

Courses
Year 1
Introduction to Sociology, Introduction to Political Science, Introduction to Public Administration, Introduction to Economics, Logic & Thoughts

Year 2

Year 3

Year 4
Careers and Graduate Destinations
The sociology major is not restricted to students who plan careers in the social sciences. Being equipped with a wide array of sociological ideas and tools, sociology major can be effective in whatever fields they choose. A number of sociology graduates are now leading their careers in a wide variety of fields such as social research, public administration, media production, and business.

Faculty
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What is Economics?
Economics is a science that studies the choice behavior of economic agents, such as individuals, firms, and the government, on allocating their limited resources, such as money and time. The study of the economic behavior of a single economic agent, such as a single person, a firm, or an industry is called microeconomics. The study of the economic activity of the aggregate of economic agents is referred to as macroeconomics. Economic science has witnessed a rapid growth in both the quantity and the quality of its research papers over the past several decades. The end of the rivalry between the free market system and the planned market system triggered a flood of research activities on the market-based economic system. The center of interest has been on how the market works and what the role of the government is in the market-based economic system. Economic theories are developed using intuitions or analytic results of economic data. Economic models are usually put to test exploiting the advancement of analytical technology called econometrics. Thus, economic data are analyzed for both testing known economic theories as well as building new economic theories.
Economics is probably the most important science for all nations on the planet. The success or failure of a government is most often measured by the economic performance of the nation. Rapid economic growth often provides an assurance of the survival of the incumbent regime and vice versa. The science of economics tries to provide answers to important queries such as why some countries show almost no economic growth over an extended period while others enjoy significant growth. In fact, there are many more questions economics wants to provide answers for. Why are some people left unemployed while others do not worry about being unemployed? What is the role of education in economic growth? And so forth. Money may not buy happiness. But happiness may not come without money. And money may not exist without economics.
Economics at Kyung Hee University

The objectives of the Department of Economics at Kyung Hee University are to equip students with knowledge on the economic aspects of modern society, to familiarize them with various techniques for the analysis of contemporary economic problems, and to develop in them an ability to critically evaluate government economic policies. Our training in economics covers a broad spectrum of knowledge in not only economic science but also various fields of study that help our understanding of economics better than otherwise possible.

The undergraduate program provides an excellent preparation not only for those seeking employment but also for those seeking graduate degrees. The department offers highly competitive undergraduate programs in the field of financial economics. Recently, the department successfully obtained multi-year grants, US$15,000 a year, from the university administration for the purpose of strengthening the undergraduate program in financial economics. Also, the department succeeded in securing a multi-year government funding, US$10,000 a year, for fostering the research capacity of the department and strengthening the graduate program.

The graduate program is designed to provide students with professional knowledge and skills that are required in doing independent advanced academic research. The program has drawn a body of students whose backgrounds range from high level government employees to recent graduates of small universities in Korea. A notable recent trend is the growing foreign student body. More and more foreign students are admitted in recent years.

Degree Requirements

To receive the BA degree in Economics, a student must:
- complete a minimum of 130 credit units.
- complete 12 units of the Required Courses.
- complete 45 units of the Elective Courses, and
- satisfy, for the other requirement, the General Requirements of Kyung Hee University and School of Economics.

Courses

Year 1
Principles of Economics, Principles of Economics 2, Economic Statistics, Science and Philosophy or Introduction to Western History

Year 2
Intermediate Microeconomics 1, Intermediate Microeconomics 2, Intermediate Macroeconomics 1, Intermediate Macroeconomics 2, Mathematics for Economics

Year 3

Year 4

Careers and Graduate Destinations

Our graduates have an array of employment choices such as professional economist, financial analyst, accountant, manager, government employee, or teacher. Graduates of the department are among the highest paid of all Kyung Hee graduates. Our graduates command posts in private companies, stock brokerage houses, trading companies, investment banks, and government departments and agencies. The demand for our graduates, who are acquainted with modern economic theories and techniques, is expected to keep rising. Our department will continue searching for better ways to make our graduates more competitive in the job market.

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What is International Business and Trade?
International Business and Trade crosses many disciplines and is an important component of the commercial world in which we all live. At the Department of International Business and Trade, you can learn about important issues relating to the international economics and the management of businesses that span national boundaries. The primary issues of
teaching in the Department are:

- The theories of international trade and international finance
- The role of governments and the international economic policies
- The macro and micro environments facing international firms
- The International business strategy
- The practices of international business and trade
- Foreign area studies such as Asia, Europe and the Pacific

International Business and Trade at Kyung Hee

The Department of International Business and Trade at Kyung Hee University provides you with unique insight to understand and research the topics in international business and trade by combining various disciplinary lenses. Our courses consist of international economics, international business, practices of international commerce, and foreign area studies. At the same time, the school pursues integrated and multidisciplinary approaches in the international business and trade academia which can offer you broad knowledge to be a leader in the field. In addition to academic curriculum, the school offers many specialized programs to fit students needs such as 7+1 (study for one semester in affiliated foreign universities), Global Trade Expert Incubating Program (GTEP supported by Korea Ministry of Knowledge and Economy), foreign and domestic internships, international business and area study, and international finance and investment. The students in our school are also very active in students-governed programs for learning different disciplines.

Degree Requirements

To receive the Bachelor of Commerce in International Business and Trade,

- complete a minimum of 130 credit hours.
- satisfy the General Requirements of the School for professional degrees.

Courses

Year 1
Principle of International Trade, Principle of Economics, Science & Philosophy, Readings in International Trade Study

Year 2

Year 3

Year 4

Careers and Graduate Destinations

The graduates of International Business and Trade are equipped with the knowledge and the skills required to succeed in all areas of international management of companies and governmental organizations. Our graduates are active in various fields of international business such as management consulting, investment banking, policy analysis, and trade advice.

Faculty

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Chung-Suk Suh, Ph.D. Kyung Hee University, 1982, Emeritus Professor, Principle of Trade, Economic Integration, suhcs@khu.ac.kr
What is Journalism and Communications?
The Department of Journalism & Communication is the place to equip the students as future communication specialists with professional knowledge, research abilities, and most importantly, insightful perceptions to understand the rapid changes that our society and media industries are undergoing in technologies, culture, economy, and society. The department provides a wide range of curriculum where students select a variety of courses to deepen their knowledge and experience in the fields of journalism and communication, such as news reporting, advertising, PR, visual communication, and interpersonal communication. With an outstanding faculty and professional staff members, students will be trained as competent communication experts, who have a critical and insightful eye for the rapidly changing industry.

Journalism and Communications at Kyung Hee
The Department of Journalism & Communication, founded in 1965, provides comprehensive programs for future specialists in the communication, journalism, and media fields. Our students are among the very best students admitted to Kyung Hee and the faculty members have shown strong scholarly and professional leadership in relevant fields. The Journalism & Communication program consists of two major fields: 1) journalism & mass communication and 2) visual communication & information studies. The journalism & mass communication track focuses on print and broadcast journalism, advertising, and public relations, while the visual communication & information studies track concentrates mainly on visual and interpersonal communication, new media and digital production using the latest communication technologies. Through these programs, the Department provides the students with both theoretical and practical training, trying to achieve the following goals: First, students will get a refined theoretical understanding of the functions and impacts of mass and interpersonal communications in our society and the technological, economic, and cultural attributes.
of the ever-evolving new media. Second, students will have specialized skills and knowledge required in actual worksites so that they can develop a successful professional career in the fields of their own interest. Third, students will be able to apply their theoretical insights and research skills to real world practices and, in so doing, they can establish themselves as leading experts.

Degree Requirements

- At least 130 units of undergraduate level credit in Journalism & Communications courses are required.
- There are three requirements for graduation: foreign language test, thesis, and, project.
- Students must fulfill one of them.

Courses

Year 1
Mass Media in Contemporary Society, Writing for the Media, Speech & Presentation, Logic & Critical Thinking, Computer Literacy, Introduction to Contemporary Korean Literature

Year 2

Year 3

Year 4

Careers and Graduate Destinations

Students in the School of Journalism & Communications will graduate with a bachelor of political science degree. Most students who graduated from the school are currently working as a reporter, announcer, program director in journalism-related areas, or working at advertising agencies or the PR division of a company. Some of them are studying at graduate schools to be future researchers.

Faculty

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College of Management

School of Management
Management
Health Services Management
Department
Accounting and Taxation
What is Management?
At its most fundamental, management is the art and science of getting things done through other people and resources. Managers achieve an organization’s objectives by arranging for others and resources to do the right things at the right time. Since every society needs organizations, the management discipline occupies an important place. These activities involve developing a set of plans and objectives, building a strategy, organizing people and resources, leading and communicating with people, and controlling all the activities through financial and operational information. Management as a science seeks to find solutions to the real and/or potential problems arising in the course of these actions, and to establish theories or systematic frameworks that answer those challenges efficiently and effectively. Furthermore, in order to learn how to be an effective manager, not only are the theory and knowledge about these activities required but also actual behavior and practical experiences.

Management at Kyung Hee
Kyung Hee University has a strong tradition of research and teaching in academic and practical subjects. The management program at Kyung Hee University has been following this tradition and serving the profession and the community by providing world-class leadership. The program has the highest quality faculty and students in all aspects of scholarship and provides innovative learning experiences in creating, disseminating and applying management knowledge. The management education, in particular, aims at providing students with a broad range of academic and practical disciplines in the tracks of marketing, operations management, finance, and human resource management. Our courses represent the full spectrum of management, from fundamental and common knowledge about management to unique and advanced subjects in different tracks. The management major pursues these two key educational goals:
• First, training students not only to attain a solid ground in the common body of knowledge of business administration but also to expose themselves to particular management functions in sufficient depth, thereby achieving good competence to pursue unique careers in various industries.
• Second, educating students not only to be responsible world citizens but also to be leaders in their profession by guiding them to develop the twin abilities of thinking critically about economic and business issues and expressing their ideas both in oral communication and in writing.

Degree Requirements
To receive the Bachelor of Business Administration with Management Major, you must:
• complete a minimum of 124 credit units.
• complete 18 units of Required Courses.
• complete 39 units of Elective Courses for Management.*
• complete 12 units of Prerequisite courses in Business and Economics.
* In case of double major, complete 18 units of Elective Courses for Management.

Courses
Year 1
Principle of Business Management, Principles of Economics, Introduction to Accounting, Business Statistics, Business
Mathematics, Business English

**Year 2**
- Human Resources & Organization Track:
  - Organizational Behavior, Human Relations in Organizations, Leadership Development
- Finance & Insurance Track:
  - Fundamentals of Financial Management, Investments
- Operations Management & Management Science Track:
  - Operations Management, Management Science
- Marketing Track:
  - Principle of Marketing, Consumer Behavior Research
- e-Business Track:
  - Introduction to Management Information Systems, Management and Computers
- Others:
  - Cost Accounting, Research Methodology, Understanding of Global Business Environment

**Year 3**
- Human Resources & Organization Track:
  - Human Resource Management, Labor Management Relations, Strategic Management, Organizational Theory
- Finance & Insurance Track:
- Operations Management & Management Science Track:
  - Quality Management, Logistics Management, Service Operations Management
- Marketing Track:
  - Marketing Channel Management, International Marketing, Marketing Research, Internet Marketing, Service Marketing
- e-Business Track:
- Others:

**Year 4**
- Human Resources & Organization Track:
  - International Human Resource Management, Organizational Development, Management Skill Development
- Finance & Insurance Track:
  - Case Studies in Finance, Corporate Financial Policy, Financial Institutions Management, Understanding of Money and Finance, Management of Insurance Service Providers, Securities Markets
- Operations Management & Management Science Track:
  - Business Games and Simulation, Management and Decision Analysis, Supply Chain Management, Managerial Economics
- Marketing Track:
- e-Business Track:
- Others:
  - International Business Strategy, Multinational Enterprise, Special Topics in Management, Business Ethics, You Seminar, Business Internship
Careers and Graduate Destinations

Students in the management major are highly sought after by a wide range of employers. Many private organizations (international and local) including banks, investment & securities firms, high-tech companies, and so on, recruit and hire many students. Furthermore, the governmental and non-profit sectors are keenly interested in attracting the graduates of our program. Students who are interested in advanced studies can also play an important role in higher education or research organizations such as universities and private/public research institutions. With the high manpower needs in management, our students have increasing opportunities to exploit their skills and contribute to our society.

Faculty

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Health Services Management

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What is Health Services Management?

Healthcare is one of the fastest growing and most dynamic industries nationally and internationally. Opportunities for healthcare management professionals are expected to grow during the next 20 years as a result of greater needs of
consumers and the challenges of an aging population. Healthcare services are delivered through a complex array of hospitals, clinics, and long term facilities as well as manufacturers producing pharmaceuticals, medical equipments, etc. Health Services Management majors are interested in the application of business management knowledge and techniques to the healthcare industry. Therefore, students acquire knowledge and experience both in the general management sector and specifically in the healthcare field.

Health Services Management at Kyung Hee

In response to the growing demand for management training in administrative medicine, Kyung Hee University launched the Health Services Management program in 1998. The program offers the undergraduate student a comprehensive curriculum of study, since it is interested in a broad spectrum of healthcare industries such as hospitals, clinics, pharmaceutical and medical equipment companies, silver industries, health insurance companies, and government agencies. With management perspectives which focus on organizational efficiency and effectiveness, the program offers many opportunities for students to broaden their understanding of healthcare industries and related issues. Specifically, this major teaches applied management courses such as planning, implementing, and evaluating methodology for healthcare organizations as well as courses to understand the contemporary issues and trends of the healthcare industry and to have conceptual and analytical skills based on statistics and information systems. The faculty also strives to assist the development of intelligent leaders in the respective professions who are responsive to healthcare needs. This combination of rigorous business preparation and in-depth future-oriented healthcare management education differentiates the program from others.

Degree Requirements

A total of 124 credit units are required for the Bachelor of Business Administration with Health Services Management major. In particular, students must complete the following requirements.

- 18 units of required courses.
- 39 units of elective courses in Health Services Management major (18 units for double major students).
- 12 units of prerequisite courses in Business and Economics.

Courses

Year 1
- Principle of Business Management, Principles of Economics, Introduction to Accounting, Business Statistics

Year 2

Year 3

Year 4
- Theories of Health Services Management Models, Health Services Management Examination/Operations Theory, Health Services Industry Seminar, Health Service Quality Management

Careers and Graduate Destinations

The Health Services Management program prepares students to become management experts in a variety of healthcare industries such as hospitals, clinics, pharmaceutical and medical equipment companies, silver care industries, health insurance companies, and government agencies. Specifically, career opportunities continue to expand in the planning
and consulting sector, patient management and accounting sector, policy and insurance sector, research sector, and information management sector in healthcare industries. Now, our students who graduated with this major have worked in large-size hospitals, group practice clinics, healthcare consulting companies, insurance companies, pharmaceutical companies, etc. Others have entered healthcare-related graduate studies at top schools across the country. This well-guided career approach gives students the background, internship practice, and professionalism to succeed in health services management.

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What is Accounting and Taxation?
At its most fundamental, accounting is the development and communication of the financial and operational information necessary for management decisions in both the private and public sectors. Accounting seeks to measure the results of an organization’s economic activities and convey this information to management, investors, creditors, regulatory agencies, consumers, and employees. Under this broad definition, the field includes such distinct areas as financial accounting, management accounting, auditing, international accounting, tax accounting, and public-sector accounting.

Accounting and Taxation at Kyung Hee
The accounting and taxation program at Kyung Hee University serves the profession and the community by providing world-class leadership in the accountancy discipline. It provides innovative learning experiences that engage the highest quality faculty and students in all aspects of scholarship, including the creation, dissemination and application of accounting and taxation knowledge. More specifically, the objective of the accounting and taxation education at Kyung Hee is to provide students with a broad overall education, solid grounding in the common body of knowledge of business administration, and exposure to accounting and taxation in sufficient depth to help them achieve entry-level competence for pursuit of a career in industry. In order to achieve this goal, we educate students to be responsible world citizens and to be leaders in the accountancy profession by guiding them to develop the twin abilities of thinking critically about economic and business issues and communicating their thinking both orally and in writing.
**Degree Requirements**

To receive the Bachelor of Business Administration with Accounting major, a student must:

- complete a minimum of 130 credit units.
- complete 27 units of Required Courses.
- complete 39 units of Elective Courses for Accounting.*
- complete 9 units of Prerequisite courses in Business and Economics.

* In case of double major, complete 18 units of Elective Courses for Accounting

**Courses**

**Year 1**

- Principles of Accounting, Principles of Economics, Business Statistics, Management Accounting 1

**Year 2**


**Year 3**


**Year 4**

- Advanced Topics on Financial Accounting, Advanced Auditing Problems and Cases, Taxes and Business Strategies, Case Studies in Accounting, International Taxation, Special Topics in Accounting 1, Accounting Information and Financial Management Decisions, Special Topics in Accounting 2, Business Practice and Accounting, Management and Accounting for the Arts Organization, Problem Solving in Tax Accounting

**Careers and Graduate Destinations**

Students in the accounting and taxation major are highly sought after by a wide range of employers. Many public accounting firms (international, regional, and local) typically hire many students. Kyung Hee University has been ranked between 5th and 7th in the CPA examination performance. Many public companies including financial companies such as banks, securities companies, and insurance companies also recruit accounting students and an increasing number of students are choosing corporate careers. In addition, the governmental and not-for-profit sectors are keenly interested in attracting the graduates of our accounting and taxation program. Students who are interested in advanced programs enter Master’s programs in accounting and taxation area.

**Faculty**

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Bonita A. Daly, Ph.D. University of Illinois at Urbana-Champaign, 1990, Assistant Professor, Accounting
Sung-Ook Park, Ph.D. Seoul National University, 2010, Full-time Lecturer, Tax Accounting, sopark@khu.ac.kr
College of Hotel and Tourism Management

School of Hospitality Management
Department of Hotel Management
Department of Convention Management
Department of Food Service Management
Department of Culinary · Service Management

School of Tourism
Department of Tourism Management
Department of Cultural Tourism Contents
What is Hotel Management?
The hotel industry ranks first among the service industries in the number of employment opportunities. Job opportunities for qualified persons are available worldwide. The opportunities for employment are abundant, and graduates are actively recruited each year by numerous hospitality firms. Management positions are available with hotels, motels, restaurants, contract food service companies, convention bureaus, private clubs, travel and tourism organizations, resorts, theme parks, and corporations.

Hotel Management at Kyung Hee
Hotel Management has positioned itself as a fast growing area of study in a globalized world that requires new and evolving concepts of service and management strategy. The industry has moved into the limelight as one requiring professional management knowledge. At this point in time, more people with international standards are needed to lead the hospitality industry with a sense of mission by coping with the changes and demands of the new era. The department offers a variety of courses that address the theories and practices of hospitality industry, training professionals in the knowledge and practical expertise necessary to meet the demands of the industry.

Degree Requirements
To receive the Bachelor of Management in Hotel Management, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 69 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 24 credits of electives from the major for single major.
- complete 63 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 18 credits of electives from the major for dual majors.
- complete Internship I and graduation thesis.
- You may be exempt from the graduation thesis if you complete Internship II, III.

Courses
Year 1
Hospitality & Tourism, Hotel Management, Introduction to Convention, Food Service Management, Restaurant Management, Cultural Tourism

Year 2

Year 3
Planning, Cost Control Management of Hotel, Hotel Concept & Design Development, Case Study on Hotel Management, Service Science, Investment

Year 4

Careers and Graduate Destinations

Nationally recognized and respected, Kyung Hee’s hotel management program is designed to prepare students to cope with changing business conditions and to present both theoretical and practical approaches to the diverse needs of the hospitality industry. Students will be prepared for future careers in major hotel corporations, restaurants, travel agencies and many other areas of the hospitality field.

Faculty
Shin-Ja Park, Ph.D. Saint Louis University, 1977, Professor, Educational Psychology, sjapark@khu.ac.kr
Yong-Ju Kwon, Ph.D. Sejong University, 2002, Professor, Hotel & Tourism Management, yjkwon@khu.ac.kr
Joung-Woo Byun, Ph.D. Kyung Hee University, 1999, Professor, Tourism & Hotel Information Management, jwbyun@khu.ac.kr
Jin-Soo Han, Ph.D. Kyung Sung University, 1998, Professor, Marketing, Hotel & Restaurant Management, jshan@khu.ac.kr
Hong-Chul Shin, Ph.D. Pennsylvania State University, 1998, Professor, Hotel Management, shin0518@khu.ac.kr
Jeong-Gil Choi, Ph.D. Virginia Polytechnic & State University, 1999, Professor, Hospitality & Tourism, jechoi@khu.ac.kr
Won-Seok Seo, Ph.D. Pennsylvania State University, 2000, Associate Professor, Hotel Restaurant Institutional Management, wss114@khu.ac.kr

What is Convention Management?
The mission of the Department of Convention Industry Administration at Kyung Hee University is to foster students as leaders or professionals in the convention-related fields through both scientific and practical inquiry of the convention industry. The department also provides various curricular to educate students who are willing to learn knowledge and business practice in Convention Management.

Convention Management at Kyung Hee
The global MICE Industry (Meetings, Incentives, Conventions, Events and Exhibitions) has been growing steadily over the recent years. In Korea, the industry is fast becoming a leading world-class player. This industry has opened doors
promoting the international exchange of information, culture and peace by facilitating meetings, incentives, conventions, events and exhibitions for corporations, governmental and nongovernmental organizations, enterprises, and interest groups in every field of interest. In response to the growing demand for MICE and Convention professionals, the College of Hotel & Tourism Management at Kyung Hee University has been one of the first in Korea to develop a Department of Convention Management and to offer a full curriculum and four year degree in Convention Management. Students graduating from the department are equipped for the challenges of this exciting profession and ready to take leadership roles in the international MICE industry.

Degree Requirements
To receive the Bachelor of Science in Convention Management, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 69 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 24 credits of electives from the major for single major.
- complete 63 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 18 credits of electives from the major for dual majors.
- complete Internship I and graduation thesis.
- You may be exempt from the graduation thesis if you complete Internship II, III.

Courses
Year 1
Hospitality & Tourism, Hotel Management, Introduction to Convention, Food Service Management, Restaurant Management, Cultural Tourism
Year 2
Year 3
Year 4

Careers and Graduate Destinations
Meetings, Incentives, Conventions, & Exhibitions (MICE) Industry is the fastest growing industry in the 21st century, and it is also recognized as a high value-added and cost/benefit efficient industry. Because of the bright outlook for the future of the industry, more convention professionals will be needed and must be produced in academic and business fields.
Graduates of our department can compete effectively with other students who obtained a general education, as well as those who graduated from general business school. Performance as a convention major and willingness to prepare for a variety of career options will increase the attractiveness to employers and help eventual career placement. Graduates can
find excellent well-paying positions in a variety of areas of the industry. Students can look forward to careers in the following areas, among many others:

- Meeting Planner
- Event Planner
- Trade Fair and Exhibition Organizer
- Convention and Visitors Bureau
- Convention and Exhibition Center
- Hotel, Travel Agency, Association
- Public Organization, Government, Corporation
- Broadcasting Company, Newspaper Company
- Graduate School

Faculty

Chul-Won Kim, Ph.D. Texas A&M University, 1999, Professor, Leisure and International Tourism Management, cwkm@khu.ac.kr
Dae-Kwan Kim, Ph.D. Michigan State University, 1999, Assistant Professor, Leisure and International Tourism, kdk@khu.ac.kr
Bong-Seok Kim, Ph.D. Dresden University of Technology, 2003, Assistant Professor, Trade Fair and Exhibition Management, herz5@khu.ac.kr
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Yoo-Shik Yoon, Ph.D. Virginia Polytechnic Institute and State University (Virginia Tech), 2002, Associate Professor, Tourism Management, ysyn@khu.ac.kr
Nam-Ho Chung, Ph.D. Sungkyunkwan University, 2003, Associate Professor, MIS/e-Business, nhchung@khu.ac.kr

What is Food Service Management?

As people spend more time at work, more commercial restaurants and non-commercial institutions are doing business actively, and the food service industry is appearing as one of the major industries. Therefore, the need for theoretic and practical studies in efficient management led to establishing Food Service Management. Food Service Management specializes in food service.

Food Service Management at Kyung Hee

The mission of the Department of Food Service Management is to prepare students for professional careers in hospitality management by providing theory based education and practical experience. The curriculum combines courses in food and nutrition, business administration, restaurant management, non-commercial food service, and hotel food & beverage operations to provide a strong base for professional success. Industry-experienced faculty members and outstanding facilities await students. Since rapid growth in the food service industry has created a demand for graduates from four-year
food service and restaurant management programs, our graduates are qualified for management level positions in full service restaurants, contract and noncommercial dining operations, hotels, private clubs & resorts, convention services, and other food services-related fields.

**Degree Requirements**

To receive the Bachelor of Food Service Management, a student must:

* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 69 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 24 credits of electives from the major for single major.
* complete 63 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 18 credits of electives from the major for dual majors.
* complete Internship I and graduation thesis.
* You may be exempt from the graduation thesis if you complete Internship II, III.

**Courses**

**Year 1**

Hospitality & Tourism, Hotel Management, Introduction to Convention, Food Service Management, Restaurant Management, Cultural Tourism

**Year 2**


**Year 3**


**Year 4**


**Careers and Graduate Destinations**

Since rapid growth in the food service industry has created a demand for graduates from four-year food service and restaurant management programs, our graduates are qualified for management level positions in full-service restaurants, multi-brand franchise restaurants, retail businesses, contract food service operations, food-related mass media, and other food service-related fields.

**Faculty**

Kyung-Hee Lee, Ph.D. Kyung Hee University, 1999, Professor, Culinary Science, lkhee@khu.ac.kr
Tae-Hee Kim, Ph.D. Kansas State University, 1998, Associate Professor, Hospitality & Food Service Management, thkim33@khu.ac.kr
Jae-Youn Ko, Ph.D. CHA. Sejong University, 2000, Professor, Hospitality Management, jyko@khu.ac.kr
Kyu-Wan Choi, Ph.D. Seoul National University, 2007, Assistant Professor, Finance, Accounting, Strategic Management, kwchoi@khu.ac.kr
Jo-Hye Hwang, Ph.D. Pennsylvania State University, 2005, Assistant Professor, Hotel & Restaurant Management, hwangj@khu.ac.kr
What is Culinary · Service Management?

Culinary Science and Arts takes a global look at food service management as well as culinary skills. Students learn various culinary skills and basics in food science including nutrition and sanitation, and management principles and practices to achieve their goals in the food service and hospitality industry.

Culinary Science and Arts at Kyung Hee

The Department of Culinary·Service Management takes a global look at food service management as well as cuisine skills. Students learn various culinary skills, basic food science including nutrition and sanitation, and basics in management practices to achieve their goals in the food service and hospitality industry. Our program is committed to offering students the opportunity to receive a superior education in the culinary science and arts. Over 3,000 graduates are working in the food service industry including hotels, catering businesses, restaurants, bakeries, and food manufacturing companies. The program provides a strong basis in management practices as well as basic culinary skills that will help students achieve their goals in the food service and hospitality industry. Our curriculum introduces students to both front of the house as well as back of the house operations.

Degree Requirements

To receive the Bachelor of Science in Culinary Science and Arts, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 69 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 24 credits of electives from the major for single major.
- complete 63 credits include 18 credits of required courses, 15 credits of electives, 12 credits of required courses and 18 credits of electives from the major for dual majors.
- complete Internship I and graduation thesis.
- You may be exempt from the graduation thesis if you complete Internship II, III.

Courses

Year 1
- Hospitality & Tourism, Hotel Management, Introduction to Convention, Food Service Management, Restaurant Management, Cultural Tourism

Year 2
Year 3

Year 4

Careers and Graduate Destinations
The program provides a strong basis in management practices as well as basic culinary skills that will help students achieve their goals in the food service and hospitality industry. Our curriculum introduces students to both front of the house as well as back of the house operations.
Currently, over 2 million people are employed in the food service business, making it one of the largest retail industry employers in the country. Graduates enter the industry as entry-level cooks in restaurants, hotels, and institutions and choose jobs in dining room service, catering, food research, or kitchen supervision. Also, graduates expand their employment possibilities to include business management and staff management positions, as well as business ownership, communications, marketing, sales, and more.

Faculty
Kwang-Suck Lee, Ph.D. Dongguk University, 2001, Associate Professor, Baking, koreadclub@yahoo.co.kr
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Soo-Bum Lee, Ph.D. Virginia Polytechnic Institute & State University, 1999, Associate Professor, Hospitality and Tourism Management, lesoobum@khu.ac.kr
Soo-Keun Choi, Ph.D. Yeungnam University, 2002, Associate Professor, Food Processing, skchoi52@hanmail.net
Kung-Young Nam, Ph.D. Purdue University, 2007, Full-time Lecturer, Food Service Management, ynamkung@khu.ac.kr
La-Na Chung, Ph.D. Yonsei University, 2005, Assistant Professor, Culinary Art & Foodservice Management, dearlana@khu.ac.kr
Young Namkung, Ph.D. Purdue University, 2007, Assistant Professor, Food Service Management, ynamkung@khu.ac.kr

What is Tourism Management?
The educational objectives of Tourism Management Major are:
+ to systematize the theory of tourism development as a separate academic field.
+ to help this major have sound development in the tourism industry.
+ to provide students with broad knowledge and theory on the tour spots development so that they can work as competent
experts on tourism development.
• to cultivate a competent work force that can contribute to efficient tour administration and the establishment of tour policies as well as those who can play a major role in the tour industry and other related areas.

Tourism Management at Kyung Hee
The tourism industry today faces challenges in a world of abrupt changes in production systems brought about by global deindustrialization. The era of soft tourism is emerging, representing ‘feeling,’ ‘emotion,’ and ‘space’ in the 21st century. Students in the Department are introduced to practical as well as theoretical knowledge of tourism and exposed to opportunities via fieldwork in preparation for their future jobs in travel agencies, airlines, hotels, resorts and condominiums. Graduating students move on to lead the tourism industry in Korea with expertise of an international standard. They make great contributions to the enhancement of the quality of life for the whole nation. Moreover, internship programs send students to prestigious hotel and tourism-related institutions at home and abroad where they learn up-to-date knowledge and skills.

Degree Requirements
To receive the Bachelor of Science in Tourism Management,
• you must complete a minimum of 130 credit units.
• you must complete 4 cultural subjects: Introduction to Hotel Management, Introduction to Tourism, Introduction to Tourism English, and Introduction to Modern Spoken Japanese.
• single majors must complete a minimum of 63 credit units, multiple majors must complete a minimum of 36 credit units, and associate majors must complete a minimum of 21 credit units.
• you must complete the required Internship I.
• you may be exempt from the graduation thesis if you complete Internship II, III.

Courses
Year 1
Cultural Anthropology of Tourism, Introduction to Tourism, Culture & Tourism English, Culture & Tourism Japanese, Understanding Cultural Tourism Contents, Introduction to Leisure
Year 2
Year 3
Year 4
Marketing Research for the Tourism Industry, Applied Economics of Tourism, Tourism Event Planning and Marketing, Tourism Site Practice, Consumer Behavior, Strategic Management in the Tourism Industry, Tourism Research and Statistical Analysis, Tourism Industry Seminar, Special Tourism Experiences

Careers and Graduate Destinations
The Department of Tourism Management prepares students to play indispensible roles in tourism developing & planning, and managing travel and tourism businesses. Korean major conglomerates as well as the government and public organizations are planning to launch the development of tour spots and resorts. After graduation, students can also work in government agencies engaging in tourism administration and policies. Another important prospective career after graduation is to work in tour-related businesses like airlines, resorts, hotels or travel agencies, to name a few.

Faculty
Kee-Jong Lee, Ph.D. Korea University, 1991, Professor, Tourism Politics, leekj@khu.ac.kr
What is Cultural Tourism Contents?
Nationally, the 21st Century is a period of global communication through culture, with each country’s unique culture playing an important role in attracting tourists and business people from other countries. Korean Wave is one of the representative phenomena showing the importance of cultural contents in promoting the country’s uniqueness in the global situation. The Department of Culture and Tourism Contents is an opportune field of study that teaches diverse elements of cultural contents and their communication relevant to various aspects of tourism. Along with the development of attractive cultural contents, their effective communication through various media - both verbal and nonverbal - is crucial in the 21st century global tourism. The department is to produce talented leaders equipped with sufficient knowledge of culture and tourism contents and skills of communication of those contents, especially in English and Japanese as well as Korean. The department offers diverse subjects to enhance the understanding of the basic elements of culture, communication, and tourism. Also, students will be provided an intensive program for strengthening their practical communication skills crucial in the globalized tourism markets. Especially, the language proficiency for both English and Japanese, the only university program in the tourism sector, will be the major assets for the graduates of our department.

Cultural Tourism at Kyung Hee
The 21st Century is an era in which culture is emerging as a major tool of communication. In Korea’s tourism culture industry, a core national strategic industry, new cultural understanding and products (‘cultural contents’) are continually being sought, ways in which Korea’s culture can be preserved, developed and used to open doors to inter-cultural understanding. The nation is investing heavily in the development of this ‘cultural contents industry’ with successes marked by the rise of the ‘Korean Wave’ and other cultural movements.
At Kyung Hee University, this Department aims to nurture expertise equipped with human and social qualifications and on that foundation develop students’ knowledge of creative cultural contents. Teaching cultural contents in Japanese and English contributes to the creative production of cultural contents and promotion on the world stage.

Degree Requirements
To receive the Bachelor of Tourism English Interpretation, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 33 units of Electives for Tourism English Interpretation.
• complete 48 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
• acquire a minimum English proficiency test score of TOEFL (CBT) 240 or TOEIC 800.

Courses

Year 1
Cultural Anthropology of Tourism, Introduction to Tourism, Culture & Tourism English, Culture & Tourism Japanese, Understanding Cultural Tourism Contents, Introduction to Leisure

Year 2
Inter-Cultural Communications, Commentary & Experience Japanese Culture, American Cultural Tourism Contents, Understanding of Japanese Language Culture, Culture & Tourism Storytelling in English, Korean-Japanese Storytelling, Tourism Publicity, Culture & Tourism English, Field Trip to Cultural Tourism Areas, Culture and Tourism Presentation English, World Holidays & Festival Tourism, Intercultural Communication between Korea and Japan

Year 3

Year 4
Culture & Tourism Presentation Japanese, Myth and Religious Cultural Contents, Web and Mobile Contents Planning, Cultural Tourism of the Korean Wave, Game Contents Planning and Development, World Cultural Heritages in Korea, Public Communication

Careers and Graduate Destinations
Along with the increase in the importance of cultural contents in various industry including tourism, there is a growing demand for manpower who studied cultural contents. Communication skills of English as the lingua franca and Japanese, the language with the highest influence in Korea, are recognized as the most urgent requirement in the globalized tourism field. Thus, our students equipped with both English and Japanese proficiency and communication skills as well as sophisticated cultural understanding have an exceptionally wide range of employment choices after graduation. As well as various hotel and tourism industries, they can work at government or other public organizations concerning tourism, Korean branches of foreign tourism organizations, or other general companies inside and outside the country that require English and Japanese proficiency. With the high manpower needs in tourism industry, our students will have increasing opportunities to exploit their skills and contribute to the development of an industry which can improve society’s competitive ability. We also strongly recommend students to enter graduate program related to Communication Studies or English and Japanese Translation and Interpretation.

Faculty
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Young-Ok Lee, Ph.D. Seoul National University, (Doctoral Dissertation Research at Harvard University), 1987, Professor, English Syntax, yolee@khu.ac.kr
David A. Mason, M.A. Yonsei University, 1997, Full-time Lecturer, English Syntax, mntnwolf@yahoo.com
Seung-Jae Lee, Ph.D. Ewha Womans University, 1992, Assistant Professor, English Syntax, sjlee@khu.ac.kr
Il-Young Chung, Ph.D. Dongduk Women’s University, 2005, Professor, Japanese Language, sophi@khu.ac.kr
Baek Poe, Ph.D. Korea University, 2004, Professor, Comparative Literature of Korea and Japan, poe@khu.ac.kr
Jwajija Lee, Ph.D. Hankuk University of Foreign Studies, 2004, Professor, Japanese Literature, sachiko@khu.ac.kr
Mari Nago, Ph.D. Hanyang University, 2006, Assistant Professor, Japanese Literature, kouta3625@khu.ac.kr
College of Science

Department
Mathematics
Physics
Chemistry
Biology
Geography
Information Display
What is Mathematics?
Mathematics is the science of order. Mathematicians seek to identify instances of order and to formulate and understand concepts that enable us to perceive order in complicated situations. The Mathematics major is designed to acquaint the student with the most important general concepts underlying modern mathematics. Majoring in Mathematics will provide an adequate basis for further study in either pure or applied mathematics. Because so many disciplines now rely on mathematics, mathematics provides a valuable background for many different careers.

Mathematics at Kyung Hee
The Department of Mathematics at Kyung Hee University offers the degree of Bachelor of Science through its undergraduate program. Eight faculty members work in areas ranging from algebra to statistics. Graduate programs leading to the Master of Science and Doctor of Philosophy degrees are also provided. There are about 200 undergraduate mathematics majors. The purpose of the undergraduate program is to give students an understanding of the broad basics of modern mathematics, to stimulate their interest in research, and to prepare them for later work, either in pure mathematics or allied sciences.

Degree Requirements
To receive the Bachelor of Science degree in Mathematics, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School of Sciences for the bachelor degree.
- complete 63 units of Major Courses including 21 units of Required Courses for a major in Mathematics.
- complete 48 units of Major Courses including 21 units of Required Courses for a minor in Mathematics.

Courses
Year 1
Calculus and Recitation 1, Calculus and Recitation 2, Physics 1, Physics 2, Chemistry 1, Chemistry 2, Biology 1, Biology 2, Philosophy

Year 2

Year 3

Year 4
Number Theory, Real Analysis, Topics in Topology, Differentiable Manifolds, Topics in Statistics, Numerical Analysis, Topics in Algebra, Topics in Analysis, Calculus of Several Real Variables, Differential Geometry, Applied Mathematics, Seminars on Mathematics
Careers and Graduate Destinations

Academic Jobs
A Ph.D. is generally required for positions in a college or university. A strong commitment to both teaching and research is usually expected. Only students who really love mathematics and who are talented at it should plan on this career direction.

Industry and Government Jobs
There are a number of positions in government and industry for mathematicians with the Ph.D. Also, mathematicians with the B.S. or M.S. degree have a variety of opportunities. Most positions at this level require training in some field of applied mathematics, along with some experience with computers. Here are some examples:

- Statisticians
- Actuaries
- Operations Researchers
- Classical Applied Mathematicians
- Computer Mathematicians

High School Teachers
Mathematics teachers at the elementary and high school levels are almost always in short supply. Teaching our youths is one of the most important jobs for our society, and few others have the potential for improving the lives of so many.

Mathematics-Related Jobs
Many people trained in mathematics enter professions where their mathematics background proves to be good training. Examples include computer programmers, computational biologists, accountants, finance theorists and economists.

Faculty
Il-Won Kang, Ph.D. University of Oxford, 1982, Professor, Differential Geometry, ik@khu.ac.kr
Chang-Hoon Park, Ph.D. Massachusetts Institute of Technology, 1987, Professor, Statistics, cpark@khu.ac.kr
Chan-Yong Hong, Ph.D. University of Texas at Austin, 1989, Professor, Algebra, hcy@khu.ac.kr
Young-Min Han, Ph.D. Sungkyunkwan University, 2000, Associate Professor, Analysis, ymhan2004@khu.ac.kr
Se-Goo Kim, Ph.D. Indiana University, 2001, Assistant Professor, Topology, sgkim@khu.ac.kr
Soo-Joon Lee, Ph.D. Seoul National University, 2002, Assistant Professor, Applied Mathematics, level@khu.ac.kr
Kyung-Woo Song, Ph.D. Indiana University at Bloomington, 2002, Assistant Professor, Partial Differential Equations, kyusong@khu.ac.kr
Cho-Hong Min, Ph.D. University of California Los Angeles, 2004, Assistant Professor, Applied Mathematics, chohong@khu.ac.kr

College of Science
Department of Physics

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What is Physics?
The scope of physics ranges from the cosmos to the elementary particles and everything between them in size. We study the fundamental laws governing matter in the universe. Important questions such as the origin and fate of the universe are examples of pristine physics. We also figure out ways to improve human life by utilizing the physical laws of nature. By
harnessing the atoms we have control over Nano-Technology. We have just started to understand complex systems such as biological systems and thus give a firm foundation to Bio-Technology. We have been pioneers in Information Technology, as can be witnessed by the fact that the inventor of web browser is a particle physics experimentalist. The Korean economy has been driven by the advances in semiconductor physics. As Paul Samuelson, a Nobel Laureate in Economics, once put it, physics is the King of Natural Sciences. We use the mathematical language found in the natural world which has always been a surprising source of new experimental discoveries. The development of computers has given us another tool to delve into the mysteries of the universe.

Physics at Kyung Hee

The Physics Department at Kyung Hee gives solid training in fundamental concepts of basic and applied physics, provides experimental and computer-aided classes, and emphasizes the social aspects of physics. A systematic curriculum of core courses in physics prepares students to go to graduate school in physics, or find employment in related fields such as the semiconductor industry or the field of computers. In the nationwide evaluation of physics departments in 1992, both undergraduate and graduate programs of our Department were placed in the highest-ranked group with fewer than 15 other departments. In 1997, the Department won the first prize in the University-wide evaluation of the university’s 34 units. The faculty members played a major role in the establishment of the Advanced Display Research Center (ADRC), one of the four display research centers supported by the Ministry of Commerce and Industry of Korea. These serve as proven records of the high quality in education and research, and show good prospects of the department. In 2002, in a nation-wide evaluation of physics department by Joong-Ang Ilbo, we ranked 3rd in research area of faculty, indicating a very strong research ability of the faculty. In 2007, our department was ranked 1st in the area of research performance of faculty members by Joong-Ang Ilbo. Most recently, in 2008 our department was ranked one of the best physics departments in nation-wide evaluation.

Degree Requirements

To receive the Bachelor of Science in Physics, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School of Sciences for professional degrees.
- complete 63 units of Major Courses including 21 units of Required Courses for a major in Physics.
- complete 48 units of Major Courses including 21 units of Required Courses for a minor in Physics.
- acquire a minimum English proficiency test score of TOEIC 600 or TOEFL 500 or TEPS 550.

Courses

Year 1
- Mathematics 1, Mathematics 2, Physics 1, Physics 2, Chemistry 1, Chemistry 2, Biology 1, Biology 2, Philosophy

Year 2
- Elementary Electronics Laboratory, Advanced Electronics Laboratory, Mechanics 1, Mechanics 2, Electromagnetism 1, Electronics 1, Electronics 2, Mathematical Physics 1, Mathematical Physics 2, Modern Physics, Exercises in Mechanics 1, Exercises in Mechanics 2, Exercises in Electromagnetism 1

Year 3
- Electromagnetism Laboratory, Optics Laboratory, Electromagnetism 2, Quantum Mechanics 1, Quantum Mechanics 2, Optics 1, Thermal Physics 1, Special Topics in Physics 1, Special Topics in Physics 2, Advanced Mathematical Physics, Information Physics, Computational Physics, Exercises in Quantum Mechanics 1, Exercises in Quantum Mechanics 2, Exercises in Electromagnetism 2

Year 4

Careers and Graduate Destinations

The majority of our students advance to graduate school in physics. A few opt to study engineering or other fields of
The study. The majority of those who are employed after the undergraduate study find themselves in the fields of semiconductors, software, financial industry, and secondary education. Some have found their calling in the broadcasting and entertainment industry, or have become a jazz singer or a film director. Students who have earned their Master’s are needed in the R/D part of the display industry or in the national research labs. Those with Ph.D. have become professors or researchers.

**Faculty**

Hyun-Jong Shin, Ph.D. KAIST, 1981, Professor, Theoretical Particle Physics, hjshin@khu.ac.kr
Yup Kim, Ph.D. University of Pennsylvania, 1984, Professor, Theoretical Condensed Matter Physics and Statistical Mechanics, ykim@khu.ac.kr
Keon-Ho Yoo, Ph.D. Massachusetts Institute of Technology, 1990, Professor, Experimental Condensed Matter Physics, khyoo@khu.ac.kr
Soon-Keon Nam, Ph.D. Yale University, 1987, Professor, Theoretical Particle Physics (String Theory), nam@khu.ac.kr
Young-Dong Kim, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Experimental Condensed Matter Physics, ydkim@khu.ac.kr
Jin-Mo Chung, Ph.D. Kyung Hee University, 1997, Associate Professor, Theoretical Particle Physics, jmc@khu.ac.kr
Jeong-Sun Ahn, Ph.D. Osaka University, 1992, Associate Professor, Experimental Condensed Matter Physics, johnsonahn@khu.ac.kr
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Soon-Hyung Yook, Ph.D. University of Notre Dame, 2004, Assistant Professor, Complex Systems and Information Physics, syook@khu.ac.kr
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**What is Chemistry?**

Chemistry is often defined as “the systematic study of everything,” which means that it is the study of everything that occupies space and possesses mass. This includes their composition, the properties they exhibit, and the changes they undergo when they react with other substances. We live in a world in which chemistry plays a central role. Chemistry is a critical part of our society. Modern medicines are a result of chemistry. So are computer chips. Refining metals used in so many products are a result of chemistry. We make plastics via chemical processes. We increase yields of all kind of foods...
via chemistry. We are still learning about the world, still feeling its way, constantly discovering more about the influence of chemicals on all aspects of our lives.

**Chemistry at Kyung Hee**

This chemistry department features a prominent group of scientists - 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 course work, laboratory experiments, the literature, and individual research efforts. The specific programs are tailored largely to the interest of each student, giving freedom to schedule one’s course work accordingly with the primary goal of developing a creative and productive scientist. Faculty members bring to the department diverse backgrounds, as they have received graduate degrees from various foreign universities. They have scholarly interests in all primary areas of chemistry in the fields of analytical, inorganic, organic, physical chemistry and biochemistry. Since modern chemical research is increasingly interdisciplinary, much of our current research activity cuts across boundaries. The training of both graduate and undergraduate students is taken seriously by the faculty.

The modern chemist must have knowledge of and access to state-of-the-art instrumentation in order to perform rapidly and accurately the functions that society demands of him. Consistent with its goal of providing outstanding training, the department continues to meet this challenge by an active instrumentation acquisition program, which is well-supported by the University. Equipment available in the department covers a broad range.

Our department is notable for a high degree of interaction between the faculty and students. In short, our department provides an open and friendly yet highly stimulating environment.

**Degree Requirements**

To receive the Bachelor of Science in Chemistry, a student must:

* complete a minimum of 130 credit units.
* complete 27 credit units of General Studies Courses.
* complete 63 credits offered by the Chemistry department listed below including 21 credits of Required Courses for the major.
* acquire a minimum English proficiency test score of TOEIC 600 or TOEFL 200 or TEPS 550.

**Courses**

**BS for Chemistry**

**Year 1**

Mathematics1, Mathematics2, Physics1, Physics2, Chemistry1, Chemistry2, Biology1, Biology2, Philosophy

**Year 2**


**Year 3**


Instrumental Analysis Laboratory, Chemical Kinetics, Special Topics in Physical Chemistry I, Theoretical Organic Chemistry, Spectroscopic Analysis of Display Devices, Spectroscopy Experiment for Display, Industrial Chemistry, Functional Polymer Chemistry I

**Year 4**

Careers and Graduate Destinations

All major chemical companies send requests for our 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 the students, and every effort is made to find suitable jobs for our graduates. Strong ties exist between the Department and the chemical industry. Our graduates hold industrial or academic positions or they are employed by government research institutes.

Faculty

Won Lee, Ph.D. Yonsei University, 1976, Emeritus Professor, Analytical Chemistry, wonlee@khu.ac.kr
Dong-Joon Choo, Ph.D. University of Kansas, 1982, Professor, Organic Chemistry, djchoo@khu.ac.kr
Min-Serk Cheong, Ph.D. Ohio State University, 1987, Professor, Inorganic Chemistry, mcheong@khu.ac.kr
Seung-Min Park, Ph.D. Brown University, 1989, Professor, Physical Chemistry, smpark@khu.ac.kr
Ho-Jung Kang, Ph.D. Ohio State University, 1991, Professor, Organic Chemistry, hjkang@khu.ac.kr
Hai-Dong Kim, Ph.D. Michigan State University, 1989, Professor, Analytical Chemistry, haikim@khu.ac.kr
Hoon-Sik Kim, Ph.D. Yale University, 1986, Professor, Organic Metal Chemistry, khs2004@khu.ac.kr
Jung-Ahn Kim, Ph.D. The University of Akron, 1990, Professor, Polymer Chemistry, jakim05@khu.ac.kr
Jae-Yeol Lee, Ph.D. Korea University, 1997, Associate Professor, Organic Chemistry, liy@khu.ac.kr
Hyun-Joo Koo, Ph.D. Sungkyunkwan University, 1997, Associate Professor, Physical Chemistry, hjkoo@khu.ac.kr
Jae-Kyu Song, Ph.D. Seoul National University, 2002, Assistant Professor, Physical Chemistry, jaeksong@khu.ac.kr
Sang-Soo Hah, Ph.D. Seoul National University, 2001, Assistant Professor, Biochemistry and Bioorganic Chemistry, sshah@khu.ac.kr
Joo-Hoon Kim, Ph.D. University of Texas at Austin, 2007, Instructor, Analytical Chemistry, jkim94@khu.ac.kr

What is Biology?

Biology, the science of life, is a multidimensional, dynamic, and creative discipline that focuses on understanding the living world. The disciplines are represented jointly by the two related fields, biology of organisms and molecular biology, which differ primarily in emphasis. The macroscopic biology with organisms principally explores the morphology, behavior, and evolution of individuals, populations, and ecosystems while the biology of molecules mainly focuses on the structure, function, and evolution of biological molecules, organelles, and cells. These draw on a broad array of methodologies including biochemistry, molecular biology, genetics, systematics, ecology, and biotechnology. It depends on the integration of approaches and techniques with those of many other scientific disciplines. For this reason, elements of mathematics, chemistry, and physics are important foundations for the study of biology.

Biology at Kyung Hee

The Department of Biology was founded in 1955 and has produced over 1700 graduates who are actively involved in academia, public services, and industrial society. Currently, there are eleven faculty members in the department and they have studied the highest level in the area of biology in Germany, U.S.A., England, Sweden, and France. They maintain
distinguished expertise in teaching and research and offer top quality education in biological science ranging from molecular biology to ecology. In addition, the department has kept the strongest tradition in ornithology since its foundation. The department is well equipped to give you practical experience with state-of-the-art technique in molecular biology, virology, microbiology, cell biology, plant biology, ecology and many related fields of research. Student members in the department are active in academic societies, such as “Cell” and “Biom,” and go on numerous field trips. They carry out group research projects which can be chosen from any field of biology and are supervised by a member of staff. Those projects offer exciting opportunities to work in growing areas of scientific research. In 2006, more than 25% of the enrolled students have received scholarship benefits from various funding sources.

Degree Requirements
To receive the Bachelor of Science in Biology, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 63 units of Major Courses including 21 units of Required Courses for a major in Biology.
• complete 48 units of Major Courses including 21 units of Required Courses for a minor in Biology.
• acquire a minimum English proficiency test score of TOEIC 650 or TOEFL 173 (CBT) o TEPS 550.

Courses

Year 1
Calculus and Recitation 1, Calculus and Recitation 2, Physics and Laboratory 1, Physics and Laboratory 2, Biology and Laboratory 1, Biology and Laboratory 2, Chemistry and Laboratory 1, Chemistry and Laboratory 2, Introduction to Philosophy

Year 2
Field Study in Biology, Microbiology and Laboratory, Plant Systematics, Genetics and Laboratory, Animal Taxonomy, Biological Chemistry, Cell Biology, Plant Ecology, Behavioral Science, Flowering Plant Families and Field Study, Environmental Science, Environmental Toxicology, Biodiversity

Year 3
Animal/Plant Physiology, Animal Ecology and Laboratory, Developmental Biology, Economic Botany, Immunology, Bacterial Pathogenesis, Molecular Biology, Molecular Neurobiology, Molecular Genetics, Bacteriology, Human Genetics, Environmental Microbiology

Year 4
Applied Biology & Practice, Animal Behavior, Virology, Biophysics, Biological Data Analysis, Behavioral Neuroscience, Endocrine Physiology, Seminars in Molecular Biology, Freshwater Biology, Environmental Ecology

Careers and Graduate Destinations
Our students have an array of employment choices after graduation. More than 95% of graduates from the department are employed within a year of leaving the department. Nearly 20% of them are accepted in graduate schools for a higher degree in biology, 30% have jobs related with biological sciences, and 50% pursue a wide range of careers such as business, banking, mass media, and others. There are increasing opportunities to exploit their knowledge and skills to contribute to biotech industries. In addition, professional graduate schools of medicine and dentistry have been one of the major career options for the biology graduates since 2004.

Faculty
Ho-Ja Lee, Ph.D. University of Bonn, 1979, Professor, Molecular Genetics, leehosa@khu.ac.kr
Ki-Tae Rhie, Ph.D. University of North Texas, 1990, Professor, Plant Physiology, rhiekt@khu.ac.kr
Ho-Gun Rhie, Ph.D. University of Georgia, 1989, Professor, Microbiology, hgrhie@khu.ac.kr
Suk-Pyo Hong, Ph.D. Uppsala University, 1991, Professor, Plant Taxonomy, sphong@khu.ac.kr
Jeong-Chil Yoo, Ph.D. University of Oxford, 1993, Professor, Animal Ecology, jcyoo@khu.ac.kr
What is Geography?

Geography studies the relationships between man and the environment. Geography draws on earth sciences to understand variations in the physical environment, as well as on social sciences and humanities in order to understand the ways in which human beings create and organize the regions, economies and landscapes that cover our globe. Geographical information sciences are further aspects of the discipline, focusing on the acquisition, management and display of spatial information. By combining their interests in physical and human processes, geographers play a crucial role in studying environmental deterioration and in developing strategies for the improvement of human life.

Geography at Kyung Hee

The Department of Geography, Kyung Hee University, founded in 1958, offers undergraduate and graduate programs leading to the Bachelor of Science, Master of Science and Doctoral degrees. The department offers comprehensive and rigorous preparation for research and teaching in geography, with particular strength in the following fields: geomorphology, climatology, biogeography, hydrology, urban geography, economic geography, regional development, transportation geography and planning, tourism geography, cartography and geographic information systems. The department is housed in the East Tower of the College of Sciences with special classes and laboratories, such as labs for geomorphology, environmental geography, climatology, biogeography, hydrology, geographic information systems, and remote sensing and aerial photo interpretation. The department also has a broad range of computer hardware and software as well as a map library. One of the major goals of the department curriculum is to provide a variety of geographic views of the earth as the home of humankind, and to prepare students for careers in public and private sectors as well as for graduate studies in geography. The applications of research and problem solving techniques for various geographic problems are emphasized.

Degree Requirements

To obtain a Bachelor’s Degree of geography, the following requirements are to be satisfied.

- Complete a minimum of 130 credit units.
- For a major in geography, complete 63 units of major courses in geography including 19 units of required courses.
For a sub-major in geography, complete 48 units of major courses in geography including 18 units of required courses. Acquire a minimum English proficiency test scores of TOEIC 650 or TOEFL 500 or TEPS 550.

Courses

Year 1
Introduction to Physical Geography, Introduction to Human Geography, Geomorphology, Economic Geography, Geographic Information, Principles of Economics

Year 2
Climatology, Biogeography, Soil Geography, Environmental Geography, Natural Hazard, Cartography, Urban Geography, Population Geography, Transportation Geography, Geography of Leisure and Tourism, Fieldworks in Physical Geography 1, Field Studies in Human Geography 1, Computer Cartography, Regional Geography of Korea, Regional Geography of Asia

Year 3
Geography of Urban Tourism, Archeological Geography, Environmental Change, Climatic Change, Hydrology, Regional Development, Tourism Place and Environment, Digital City and the Future, Fieldworks in Physical Geography 2, Fieldworks in Physical Geography 3, Field Work in Human Geography 2, Introduction to Geographic Information Systems, Remote Sensing, Regional Geography of Europe, Regional Geography of North Korea, Documentary of Nature and Environment, Teaching Unit Analysis (Geography), Lesson Plan for Teaching Materials (Geography), Teaching Logics and Essay (Geography)

Year 4
Water and Environment, Remote Sensing, Theories and Practices of Industrial Location, Practical Geographic Information, Geographical Thinking and Research Paradigms, Regional Geography of North America, Long-Term Internship (Geography)

Careers and Graduate Destinations
Job opportunities are many and diverse. For example, students find employment in urban and regional planning offices, various agencies of the central and local governments, location consulting firms, manufacturing and service companies, GIS companies or map-makers, and various environmental agencies. Specific work activities over the past few years have included the preparation of computer-generated maps, regional and urban planning, real estate property development, market planning and research, international trade management, and environmental impact assessment.

Faculty
Chong-Kyu Kim, Ph.D. Kiel University, 1988, Professor, Climatology, Meteorology, ckkim@khu.ac.kr
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What is Information Display?
Nowadays, the visual displays, such as TV, PC monitor, notebook monitor, and mobile phone, have become the most powerful way to deliver the information. Information Display is an inter-disciplinary science and technology dealing with these visual displays in design, simulation, manufacturing, processing, characterization of various types of electronic display devices and systems as well as the interaction between displays and human beings. Information Display is classified into thin-film transistor liquid-crystal display (TFT-LCD), plasma display panel (PDP), organic light-emitting diode (OLED) display, field emission display (FED), three dimensional display (3D), and so on. Students majoring Information Display study physics, chemistry, optics, materials science, manufacturing, electronics, computation, design and simulation for display. Further, students have the chance to study wearable display, flexible display, transparent display and other novel displays.

Information Display at Kyung Hee
Kyung Hee University has an Advanced Display Research Center (ADRC) in conjunction with TFT-LCD National Lab, with facilities to fabricate and characterize TFT-LCD, OLED and FED. Only Kyung Hee has the facility to make TFT-based display panels among academic organizations all over the world. The Information Display major pursues three core educational goals: first, training students to become practical research scientists, who will do R&D work on information displays; second, training students in display companies for six weeks as an internship; third, training students as technical managers who can manage display businesses and pursue globally competitive careers in display areas. In order to accomplish these goals, 1) we provide courses for students to obtain fundamental knowledge about information display and help them improve their creativity in areas of currently developed information displays such as LCD, PDP, OLED, etc. 2) we provide several practical educational programs, such as experiments and display industry internships, for students to directly apply their knowledge to real world displays. 3) we provide opportunities for students to study the latest display technology at such world-renown universities as the Ecole Polytechnique in France.

Degree Requirements
To receive the Bachelor of Science in Information Display, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the College of Science.
- complete 21 units of Required Courses.
- complete 42 units of Technical Electives for information display.
- complete 48 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
- acquire a minimum English proficiency test score of TOEIC 700 or equivalent.

Courses
Year 1
General Physics and Laboratory I & II, General Chemistry and Laboratory I & II, Calculus I & II, Introduction to Information Display I & II, Introduction to Computer Programming, Introduction to Digital Circuits, Display Internship 1
Year 2

Year 3
OLED, OLED Lab, Semiconductor, Display Optics, Quantum Electronics, Thin-Film Technology, Emissive Display, Emissive Display Lab, Photonics, Semiconductor Devices, Solid State Physics, Polymer Material, Display Internship 3

Year 4
LCD, LCD Lab, Process Technology for Electronic Devices, Display Circuits, Device and System Simulations, Organic Electronics, Information Display Seminar, Display Lab, Display Internship 4, Thesis

Careers and Graduate Destinations
Students have diverse opportunities in their career development. For example, they can be scientists and engineers in the development, research, or production of diverse display industry fields, including display material, panel, system, and equipments. Due to the high demand for skillful, knowledgeable and experienced manpower in information display research and industrial area, we are offering such high quality education to them and training them to fulfill these requirements. Therefore, the graduated will have more opportunities to utilize their knowledge, skill and experience, and contribute to the development of the display industry. We also strongly recommend students graduate programs related to information display for their advanced studies.

Faculty
Jin Jang, Ph.D. KAIST, 1982, Professor, TFT Display, jjang@khu.ac.kr
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Baye Boucar Diouf, Ph.D. Universite Toulouse 3, 2003, Assistant Professor, Condensed Matter Physics, diouf@khu.ac.kr
College of Human Ecology

Department
Child & Family Studies
Housing and Interior Design
Clothing & Textiles
Food and Nutrition
The Interdisciplinary Major in Elderly Welfare & Counseling
What is Child & Family Studies?
The major of Child and Family Studies contributes to the well-being of individuals and families across the life course and in diverse contexts by generating knowledge; by preparing specialists for research, teaching, leadership, and professional practice; and by strengthening the interconnections of research, practice, and policy. Child developmental studies is designed to prepare students for research, college-level teaching, and professional positions that relate to the development of children and adolescents. The Family Studies program focuses on how family relationships develop and change, with particular attention to influences in the larger environment such as gender, age, historical period, birth cohort, ethnicity and socioeconomic status.

Child & Family Studies at Kyung Hee
Kyung Hee University has a strong tradition of research and practice in Child & Family Studies, widely regarded as a leader in the study of children and families. Our academic programs prepare specialists in the Child & Family Studies field. Faculty conduct significant research on a range of critical issues facing children and families in today’s society. Kyung Hee Child & Family Studies major pursues three educational goals; first, training students to be professionals in a variety of agencies and organizations serving children; second, training students to be specialists in family research, family policy, family life education, and family therapy; third, training students to be teachers in child care settings and in middle and high schools.

Degree Requirements
To receive a Bachelor’s degree of Science in Child & Family Studies, all students are required to:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 15 units of Required Courses.
• complete 39 units of Electives for Child & Family Studies.
• complete 35 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
• complete a practicum and thesis.

Courses
Year 1
Year 2
Introduction to Early Childhood Education and Care, Play for Young Children, Counseling Psychology, Family Relationships, Gerontology, Child and the Family, Development in Middle Childhood & Adolescence, Math and Science Education for Young Children, Mental Health Issues, Family Welfare
Year 3
Language Education for Young Children, Safety Education for Young Children, Early Childhood Curriculum, Infant Development and Education, Family Therapy, Family Strengths, Research Methods in Human Ecology, Parent Education, Observation and Research of Children’s Behavior, Practicum in Family Therapy, Internship

Year 4
Psychological Test, Topics in Education for Young Children, Internship in Early Child Education and Care, Family Policies, Practicum in Family Strengths, Education for the Gifted Children, Family Life Education, Seminar in Family Studies

Careers and Graduate Destinations
Careers in the Child & Family Studies offer the chance to make a difference in the lives of many people, young and old. The goal is to help young children get off to a good start in life, provide support to families during difficult times, and enable senior citizens to make the most of their lives. Regardless of how Child & Family Studies graduates apply their knowledge and skills, they will find many outlets to do their part in making the world a better place.
Students gain knowledge and skills for a variety of careers in education and intervention programs for young children and their families. Graduates are prepared to be teachers in child care center and preschool. This major also prepares students for careers in community-based programs, mental health agencies, institutes for family research, and family therapy center. Possible careers upon completion of a degree in Child & Family Studies include Family case manager, Juvenile probation office, Intake Coordinator, Child life specialist, Child abuse specialist, Social services director, and Family support worker.

Faculty
Bok-Hee Cho, Ph.D. Oregon State University, 1985, Professor, Child Development, cho0258@khu.ac.kr
Sun-Hee Ahn, Ph.D. Utah State University, 1997, Associate Professor, Child Studies/Early Childhood Education, shahn@khu.ac.kr
Yoon-Ja Oh, Ph.D. Kyung Hee University, 1994, Professor, Family Studies, yoonja@khu.ac.kr
Gye-Sook Yoo, Ph.D. Purdue University, 1995, Associate Professor, Family Studies, dongrazi@khu.ac.kr
So-Jung Seo, Ph.D. Michigan State University, 2003, Assistant Professor, Early Childhood Education, seosojun@khu.ac.kr

College of Human Ecology
Department of Housing and Interior Design
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What is Housing and Interior Design?
The Department of Housing and Interior Design provides an excellent quality of the educational program in housing studies and interior design. The program deals with the interrelationships between people and housing in multiple dimensions. Students in the program will explore theoretical backgrounds in people as users and residential environments, build up firm foundations to seek for progressive solutions to issues in relation to housing and interior design, and develop
applications and practices in the professional field.

**Housing and Interior Design at Kyung Hee**

Kyung Hee University is strongly committed to research, education, and outreach in the field of Housing and Interior Design. The mission of the department fosters leading professionals in the area of housing and interior design in a global era. To implement the mission, the coursework provided by the department not just emphasizes the interdisciplinary approaches but fosters profound knowledge and innovative applications. The program primarily focuses on three concentrations: interior design, housing design and residential property management. Students gain professional knowledge and skills to be professionals in the field. An internship is part of the core requirements to complete the degree, and the opportunity enables the students to acquire professional experiences in the housing-related industries. Also, the department enables students to obtain a variety of international experiences such as Student Exchange Program, Course Challenge Program, International Practicum, and 7+1 Program.

**Degree Requirements**

To receive the Bachelor of Housing and Interior Design, a student must:
- complete a minimum of 120 credit units including concentrations in the program.
- pass the Competence Requirement System set by the department.
- complete internships for certain duration.
- complete either project or thesis exhibition.

**Courses**

**Year 1**
- People and Living Environment
- Living Arrangement and Space Design
- Introduction to Housing
- Introduction to Interior Design
- Basic Interior Design
- Graphic & Rendering Techniques

**Year 2**
- Korean Housing History
- Western Housing History
- Residential Interior Design
- Housing in a Global Perspective
- Multi-Family Housing Management
- Material & Mechanical Systems
- Furniture Design
- Computer Aided Design I & II

**Year 3**
- Interior Coordination
- Micro-Environments
- Environmental Psychology
- Housing Management Practices
- Research Methods in Housing and Interior Design
- Consulting for Housing Topics
- Interior Design for Facility

**Year 4**
- Residential Design
- Residential Property Management
- Housing Market Analysis
- Practicum
- Commercial Interior Design
- Seminar in Housing Issues
- Internship I & II

**Careers and Graduate Destinations**

Students in the Department of Housing and Interior Design have an array of professional choices after the completion of the degree. The careers in both public and private sectors include research, interior design, interior coordination, furniture design, housing management, housing policy, housing development, and housing marketing. Also, advanced degrees are available. Also, advanced degrees in higher education can be optional.

**Faculty**

- Hyung-Ock Hong, Ph.D. Korea University, 1986, Professor, Housing, hong1215@khu.ac.kr
- Hye-Kyung Oh, M.F.A. Art Institute of Chicago, 1982, Professor, Interior Design and Coordination, ohk@khu.ac.kr
- Seo-Ryeung Ju, Ph.D. Seoul National University, 1990, Professor, Architecture Design, jcl@khu.ac.kr
- Hyun-Jeong Lee, Ph.D. University of Minnesota, 2003, Assistant Professor, Housing & Community Development, ecohousing@khu.ac.kr
- Mi-Jeong Kim, Ph.D. University of Sydney, 2006, Assistant Professor, Design Computing and Cognition, mijeongkim@khu.ac.kr
- Jun-Ha Kim, Ph.D. Georgia Institute of Technology, 2009, Full-time Lecturer, Facility Management (FM), junhakim@khu.ac.kr
What is Clothing and Textiles?
Clothing serves to protect us from the environment, and to express ourselves through various elements such as fashion, color and design. As appearance becomes more important in our society, understanding clothing and fashion helps us improve the quality of our life and relationship with others. Clothing and Textiles focuses on the scientific study and analysis of the materials for clothing, clothing design, construction methods and distribution processes to achieve integrated knowledge. The Clothing and Textiles major seeks to produce capable, creative scholars and professionals performing excellence in academics and private sectors through teaching inter-reactions between human beings and clothing environment, as well as skills, knowledge and creativity.

Clothing and Textiles at Kyung Hee
The Clothing and Textiles major at Kyung Hee University is a nationally-ranked program offering the best in teaching, faculty expertise, and research. The baccalaureate curricula provide students with knowledge and skills in apparel design, historic costume, textiles, social-psychology of clothing, clothing construction, and fashion merchandising. Besides the course work, students have opportunities for professional growth and development through participating in a number of exhibits held within the major as well as entering other major competitions. As a graduation project, students are required to participate in a fashion show to apply their skills, knowledge and creative ideas. The Clothing and Textiles major at Kyung Hee also emphasizes responsible citizenship and cooperative personality to contribute to society.

Degree Requirements
To receive the Bachelor of Science in Clothing and Textiles
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 15 units of Required Courses.
• complete 45 units of Electives for clothing and textiles.
• complete 35 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.

Courses
Year 1

Year 2
Aesthetics of Dress, Textiles, History of Western Costume, Croquis, Theory of Costume Design, Flat Pattern I, II,
Fabric Design, Fashion Illustration I, Fashion Merchandising

Year 3


Year 4


Careers and Graduate Destinations

Clothing and Textiles graduates find a variety of positions in textile, retail, apparel/fashion firms. They typically start their careers as a designer, merchandiser, display, fashion coordinator, illustrator, sales representative, buyer trainee, manager or fashion promoter. For graduates with good writing skills, fashion journalism may be an option. Those with fluent foreign language skills find a career in trade firms of textiles and apparel products. With a teacher’s certificate, positions in junior high and high school teaching are also possible. Some graduates who are pursuing academic careers continue to study in graduate programs.

Faculty

Choon-Sup Hwang, Ph.D. University of Santo Tomas, 1981, Professor, Fashion Merchandising, Costume History, cshwang@khu.ac.kr
Mi-Sook Kim, Ph.D. Ohio State University, 1988, Professor, Draping, Consumer Behavior, mskim@khu.ac.kr
Young-Sun Yoo, Ph.D. Kyung Hee University, 2000, Professor, Fashion Illustration & Fashion Design, ysyoo@khu.ac.kr
Shin-Jung Yoo, Ph.D. North Carolina State University, 1998, Assistant Professor, Functional Fashion Clothing, Innovative Textiles, Human and Clothing, sjyoo@khu.ac.kr

College of Human Ecology

Department of Food and Nutrition

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What is Food and Nutrition?

Food and Nutrition is an area of science which deals with scientific knowledge about food and nutrition in order for humans to be able to enjoy a healthy life through a balanced diet. As the standard of living has improved and the average life span has extended, people are more concerned about their health and their desire for food is diversified. In addition, the inclines of the aged and singles populations as well as the increase of women’s status in society are influencing food habits in our society. The program of food and nutrition provides an educational experience of the highest quality for our undergraduate and graduate students in every aspect of food and nutrition in order to meet the increasing demand for food and nutrition professionals worldwide.

Food and Nutrition at Kyung Hee

The Department of Food and Nutrition is administered by the College of Human Ecology on the University’s Seoul campus. The mission of the Department of Food Science and Nutrition is to illuminate the role of food and nutrition in the
health of society through education, research, outreach, and services. Our department is home to 6 faculty, 24 graduate students, and more than 180 under graduate majors. The Department maintains excellence in undergraduate and graduate education and offers programs in both food science and nutrition; M.S. and Ph.D. programs are coordinated through the Kyung Hee University Graduate School. We are committed to excellence and the application of knowledge and expertise in classrooms, laboratories and communities. The department operates a number of specialized laboratories where food science and nutrition research is conducted in a wide variety of topics. The department houses Food Analysis and Chemistry Lab, Food Processing and Fermented Food Lab, Public Health Nutrition Lab, Molecular Nutrition/Biochemistry Lab, Food Safety and Quality Lab, Human Nutrition Lab.

Degree Requirements
To receive the Bachelor Science in Food and Nutrition,
• students must complete a minimum of 130 credits.
• students may choose the food and nutrition program either as a single or dual major.
• students in-depth program as a single major must complete a minimum of 60 credits including the elective courses in the area of Food and Nutrition.
• students in dual major must fulfill at least 36 credits in the area of Food and Nutrition.
• certificate for Registered Dietitian: Students who want to take the Registration Exam for Dieticians must take all courses of 52 credits required for the exam.
• students who want to be a nutrition teacher must complete the courses of 20 credits required for the certificate of teacher.

Courses
Year 1
Basic Nutrition, Basic Food Science, Food Nutrition and Chemistry

Year 2
Food Processing and Preservation, Food and Nutrition, Food Coordination, Food Analysis Lab, Food Chemistry Lab, Biochemistry I, Food Microbiology, Human Physiology, Nutrition through the Life Cycle, Sports Nutrition, Introduction to Statistics and SAS

Year 3

Year 4
Diet Therapy, Advanced Nutrition II, Cultural Aspects of Food, Quantity Food Production and Lab, Preventive Nutrition for Chronic Disease, Seminar in Food and Nutrition, Food Sanitation and Law, Food Quality Assurance, Dietitian Practice

Careers and Graduate Destinations
Students majoring within the Department of Food and Nutrition are prepared for a wide range of professions in the nutrition and food science fields. Students can gain practical experience by participating in internships, projects, supervised work experience, and research. The graduates produced up to now are actively involved in their professions as Community Nutritionists, Public Health Nutritionist, Clinical Dietitian, Healthcare/School Food Service Director, Private Practice Dietitian, Dietitian in Business and Industry, Nutrition Educators, Food Safety Expert, Food Chemist, New Food Product Developer, Quality Control Supervisor, Regulatory Inspector, Food and Nutritional Sciences Researcher, Secondary School Teacher, Government Official and Professors, etc. Beginning in 2006, graduates can also be employed as a nutrition teacher.

Faculty
Young-Soon Lee, Ph.D. Ochanomizu University, 1999, Professor, Food and Culinary Sciences, yysllee@hanmail.net
Myung-Joo Han, Ph.D. University of Tennessee, 1989, Professor, Food Processing and Fermented Food,
What is Elderly Welfare & Counseling?
The Interdisciplinary major has formulated curricula containing basic and social life, physical, and mental health of elderly. It offers essential and practical education opportunities through job site practicum. After completing this training course, as can take a second degree with a certificate as a social welfare expert, and be qualified to apply for a first degree certificate examination. Students who complete this program can be a social welfare specialist for the aged.

Elderly Welfare & Counseling at Kyung Hee
The major of Elderly Welfare & Counseling was established as an intensive course of “Vision 2000, long-term development project of Kyung Hee” in March, 2000. Based on synthetic parts of research, the purpose of this course is training people as social welfare experts, especially as aged-care specialists who can contribute to improving the quality and adjustment of the life of the elderly.

Degree Requirements
To receive the Bachelor of Science in Major of Elderly Welfare & Counseling in interdisciplinary, students must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 6 credits of major cultural studies.
• complete 21 credits of the main major.
• complete 15 credits of major choice, total more than 42 credits regardless of grade and semester.
• complete a practicum and thesis.

Courses
Major Cultural Studies
Introduction to Social Welfare, Introduction to Gerontology

Main Major
Major Choice

Careers and Graduate Destinations
Social welfare expert, Elderly welfare expert, Welfare exclusive responsibility government employee, Elderly welfare programmer, Silver care system manager, Medical treatment social welfare expert, Healthy family expert

Faculty
Yoon-Ja Oh, Ph.D. Kyung Hee University, 1994, Professor, Counseling & Family Life Education, yoonja@khu.ac.kr
College of Oriental Medicine

Department

Oriental Medicine
What is Oriental Medicine?
Oriental Medicine, which originated in ancient China, has spread throughout Korea and Japan. Because of Korea’s proximity to China, the medical history of Korea has been influenced by China. But instead of simply imitating, we have steadily developed our own original medicine. From the period of Baegje and Silla to the Koryeo and Chosun dynasty, the numerous books on oriental medicine distinctly prove the independence and originality of Korean medicine. Moreover, Dongeuibogam, which was published by Heo Jun, the great doctor of Korea, being the representative book on synthetic medicine, shows the uniqueness of Korean medicine. In the late Chosun dynasty, Lee Jema systemized and explained the structure and function of the human body by the method of classifying four constitutional types. He established a distinctive medicine of physical constitution by classifying every person to be in one of the four constitutions.

Oriental Medicine at Kyung Hee
Kyung Hee University established the first College of Oriental Medicine in Korea with a unique medical system. Our college has produced thousands of oriental medical doctors through more than 50 graduations. Our college and affiliated hospitals play leading roles for the objectification of oriental medicine with notable achievements: new designs of oriental medical apparatuses, the manufacture of extract medicines, the successful attainment of acupuncture anesthesia. Since oriental medicine has won public confidence both in Korea and in Western countries, our college has accumulated a vast amount of research results and experiences and exerts all possible efforts to develop oriental medicine as a traditional Korean study into a universal medicine.

Degree Requirements
Attainment of credits
- 6 credits from core cultural subjects, 15 credits from distributional requirement subjects, 9 credits from required fundamental subjects, and 3 credits from elective subjects should be obtained.
- At least 40 credits from major subjects should be obtained during the pre-Korean medical course.
- At least 167.5 credits should be obtained during the main Korean medical course.
- At least 3 subjects from the major elective courses should be passed during the main Korean medical years.

Courses
Pre-Medical Courses
Oriental Medical Courses

Careers and Graduate Destinations
Our students are scholarly and capable oriental medical doctors. They acquire knowledge, skills, and values needed to accomplish the promotion of health and the prevention and cure of disease. They develop the capacity of a leader, gain a sense of mission, and possess the humanity to develop oriental medicine and instruct medical service.

Faculty
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College of Pharmacy

Department
Pharmacy
Oriental Pharmaceutical Science
Pharmaceutical Science
What is Pharmacy?
Pharmacy focuses on the application of medicinal knowledge and attitudes with professionalism to the needs and expectations of pharmacists in hospital, drug stores, related laboratories of a company, government or university. The field of pharmacy includes Pharmaceutical Biochemistry, Pharmaceutical Analysis, Physical Pharmacy, Medicinal Synthetic Chemistry, Pharmacognosy, Preventive Pharmacy, Pharmacy Practice, Pharmacal Microbiology, Anatomy, Toxicology, Pharmacology, Human Physiology, Quality Control of Drug, Pharmaceutics, Pharmaceutical Statistics, Social Pharmacy, Pathological Physiology, Pharmacotherapy, Medicinal Chemistry, Pharmacopoeia, Pharmacy Regulation, Pharmacokinetics, Introductory Pharmacy Experimental Practice, Introductory Pharmacy Experimental Practice, Community Pharmacy Practice, Hospital Pharmacy Practice, Clinical Pharmaceutics, Inpatient Care/General Medicine, Industry Pharmacy and Medicinal Administration Practice, Advanced Pharmacy Experiential Practice.
The college contributes research in the pharmacy to the underpinning of advances in the healthcare of the community.
Students are encouraged to pursue research interests, develop learning skills and motivation to provide the basis for self-directed continuing education, and acquire knowledge, skills and attitudes appropriate for further education in any pharmaceutical speciality. The college is aimed at students who have a basic grounding in clinical pharmacy, pharmaceutical science and are training themselves to become a hospital/drug store pharmacist, researcher, public servant, patent attorney, pharmaceutical manufacture manager and so on, involved in discovering, designing, developing, and evaluating new drugs for the marketplace.

Pharmacy at Kyung Hee
The Department of Pharmacy of the College of Pharmacy was initially launched in 1955. This department focuses on the education for hospital/drugstore pharmacy, pharmaceutical science and application of medical knowledge and attitudes with professionalism to the needs and expectations as pharmacists in drug stores or hospitals, or related laboratories of companies, government or school. The department offers many courses related to clinical pharmacy, pharmaceutical science including new drug development.

Degree Requirements
To receive the Bachelor of Science in Pharmacy, a student must:
- complete a minimum of 155 credit units.
- complete 125 units for mandatory professional courses.
- complete 30 units for professional courses.
- 1 year practical pharmacy experimental practice in hospital pharmacy, community pharmacy, and industry pharmacy and medicinal administration.

Courses
Year 1
Pharmaceutical Biochemistry, Pharmaceutical Analysis, Physical Pharmacy, Medicinal Synthetic Chemistry, Pharmacognosy, Preventive Pharmacy, Pharmacy Practice
Year 2
Pharmacal Microbiology, Anatomy, Toxicology, Pharmacology, Human Physiology, Quality Control of Drug, Pharmaceutics, Pharmaceutical Statistics, Social Pharmacy

Year 3
Pathological Physiology, Pharmacotherapy, Medicinal Chemistry, Pharmacopoeia, Pharmacy Regulation, Pharmacokinetics, Introductory Pharmacy Experimental Practice

Year 4
Introductory Pharmacy Experimental Practice, Community Pharmacy Practice, Hospital Pharmacy Practice, Clinical Pharmaceutics, Inpatient Care/General Medicine, Industry Pharmacy and Medicinal Administration Practice, Advanced Pharmacy Experiential Practice

Careers and Graduate Destination
By graduation, students will develop the ability to reason logically and critically; acquired an appreciation of the contributions of clinical pharmacy and research in the pharmaceutical science to the underpinning of advances in the healthcare of the community and where appropriate received encouragement to pursue research interests; developed learning skills and motivation to provide the basis for self-directed continuing education; acquired knowledge, skills and attitudes appropriate for further education in any pharmacy and pharmaceutical specialty; and demonstrated competence in the application of medical knowledge and attitudes with professionalism to the needs and expectations as pharmacists in drug stores or hospitals, or related laboratories of a company, government, or school.

Faculty
Se-Young Choung, Ph.D. University of Tokyo, 1987, Professor, Hygienic Chemistry and Toxicology, sychoung@khu.ac.kr
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College of Pharmacy

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What is Oriental Pharmaceutical Science?
Oriental Pharmaceutical Science focuses on the application of medical knowledge and attitudes with professionalism to the needs and expectations as oriental pharmacists in drug stores or hospitals, or related laboratories of a company,

Oriental Pharmaceutical Science at Kyung Hee

Kyung Hee University has a tradition of research and teaching in Oriental Pharmaceutical Science. The excellent faculty and facilities have allowed all students to learn how to grasp the nature of materials for the cure and prevention of disease with academic backgrounds and techniques and philosophy. The programs are directed towards the acquisition of pharmaceutical knowledge and professional philosophy. The undergraduate course in Oriental Pharmacy is, therefore, directed towards the personal development of the individual student and to the acquisition and utilization of modern and traditional pharmaceutical knowledge, medical practice, skills, and attitudes with various studies and experiments for the benefit of individual patients and society.

Degree Requirements
To receive the Bachelor of Science in Oriental Pharmaceutical Science, a student must:
• complete a minimum of 150 credit units.
• satisfy the general requirements of the school for professional degrees.
• complete 35 units of required courses.
• complete 86 units of compulsory courses for Oriental Pharmaceutical Science.
• complete 29 units of elective courses for Oriental Pharmaceutical Science.
• acquire a minimum English proficiency test.

Courses
Year 1
Pharmaceutical Chemistry, Pharmaceutical Botany

Year 2
Herbology, Pharmaceutical Analytical Chemistry, Organic Chemistry, Anatomy, Pharmacognosy, Physiology, Oriental Medical Physiology, Agricultural Chemical Medicine

Year 3
Natural Product Chemistry, Hygienic Chemistry, Pathology, Biochemistry, Microbiology, Structural Analysis, Storagology of Oriental Drugs, Toxicology, Chinese Sang-Han-Rhon, Medical Sa-Sang, Pharmacokinetics, Cultivation of Oriental Drugs, Immunology, Endocrinology, Herbal Processing

Year 4

Careers and Graduate Destinations
Our students have an array of employment choices after graduation. They can research in several pharmaceutical-related areas, including drug stores and local and international pharmaceutical companies. They can also play an important role in government for the establishment of pharmaceutical strategy. We also strongly recommend entering a graduate program related to oriental pharmaceutical science.

Faculty
Jung-Hye Choi, Ph.D. University of British Columbia, 2006, Assistant Professor, Molecular biology, jchoi@khu.ac.kr
What is Pharmaceutical Science?
The Department of Pharmaceutical Sciences is cultivating specialists needed for drug research and development in a wide diversity of chemical and pharmaceutical fields. This department establishes a comprehensive program that delivers chemical and pharmaceutical structures, properties analyses, and reactions of drugs and related compounds as a tool for elucidating and controlling life phenomena.

Pharmaceutical Science at Kyung Hee
The Department of Pharmaceutical Science of the College of Pharmacy was initially launched in 2010. This department focuses on the education for pharmaceutical science, application of medicinal knowledge and attitudes with professionalism to the needs and expectations as scientists in pharmaceutical and chemical companies, government, schools or research institutes. The department offers many courses related to pharmaceutical science including new drug development.

Degree Requirements
To receive the Bachelor of Science in Science, a student must:
- complete a minimum of 130 credit units.
- satisfy the English proficiency.
- complete 17 units for cultural studies including foreign languages.
- complete 45 units for mandatory professional courses.
- complete 39 units for professional courses.

Courses
Year 1
General Chemistry, General Physics, General Biology, Calculus, Medical Terminology, Pharmacognosy

Year 2
Physical Chemistry, Natural Products Chemistry, Organic Chemistry 1, Biochemistry 1, Analytical Chemistry, Physiology, Statistics
Year 3
Medicinal Chemistry 1, Pharmacology 1, Microbiology, Pharmaceutical Management, Instrumental Analysis, Pharmacokinetics, Hygienic Chemistry, Pharmaco-Kinetics, Molecular Biology
Year 4
Immunology, Pharmaceutics, Pharmaceutical Marketing, Pharmaceutical Regulation, Pathology, Endocrinology, Pharmaceutics, Pharmacology, Pharmacopoeia, Endocrinology, New Drug Development

Careers and Graduate Destinations
Our students have an array of employment choices after graduation. They can go to a research in several pharmaceutical-related areas, including chemical and pharmaceutical companies and research institutes. We also strongly recommend entering a graduate program related to pharmaceutical science.

Faculty
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College of Nursing Science

Department
Nursing Science
What is Nursing?
Nursing encompasses the autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well and in all settings. Nursing includes the promotion of health, prevention of illness, and the care of ill, disable d and dying people.
The central goal of nursing is to reach a higher quality of nursing care that combines efficiency, effectiveness, and humanity. Advocacy, promotion of a safe environment, research, participation in shaping health policy and in patient and health systems management, and education are also key nursing roles.

Nursing at Kyung Hee
The College of Nursing Science cultivates each nurse to be a qualified citizen and a person of creative problem solving ability to perform various roles for holistic care (Neo-Renaissance Nurse), based on the university motto of “Creation of a Civilized World,” contributing to health promotion and the construction of a welfare society for human beings. Especially, the cultivation of creativity and autonomy for playing a role as a nurse in the practice, globalization, and national competitiveness are emphasized along with the acquisition of East-West Nursing knowledge and skill following the specialization of the college.

Specific goals to meet the challenge are to cultivate a Neo-Renaissance nurse with the following qualities or abilities:

- Respect for human beings to provide holistic care
- Scientific knowledge and critical thinking
- Nursing professionalism and leadership
- Therapeutic communication and relationship
- Excellent nursing skills and practical competencies
- Requested ability in the Ubiquitous era
- New nursing leadership in welfare society
- International ability
- Ability that can apply Oriental nursing knowledge and skill on health promotion and rehabilitation
- Professional lifelong learner

Degree Requirements
To receive the Bachelor of Nursing in the Department of Nursing, a student must:

- complete a minimum of 144 credit units.
- complete 59 credits of Required Courses.
- complete 35 credits of Electives Courses.

Courses
Year 1
Nursing & Religion 1, Nursing English, Nursing & Religion 2, Communication Theory, Microbiology and Laboratory, Introduction of Nursing Science, Introduction of Oriental Nursing
Year 2
Anatomy, Physiology, Human Development, Human Anatomy and Laboratory, Pathophysiology and Nursing, Pharmacology and Nursing, Fundamental Health Science and Practice 1, Nursing Ethics, Meridian Point Nursing and Laboratory, Health Assessment and Practice, Introduction of Adult Nursing, Fundamental Health Science and Practice 2, Women’s Health Nursing, Child Health and Health Promotion, Mental Health Nursing, Adult Nursing (Heart/Vessel)

Year 3
Pediatric Nursing 1, Maternity Nursing 1, Psychiatric-Mental Health Nursing 1, Adult Nursing (Respiratory/Blood), Adult Nursing (Digestion), Adult Nursing (Nerve), Pediatric Nursing 2, Maternity Nursing 2, Psychiatric-Mental Health Nursing 2, Adult Nursing (Muscleskeleton), Adult Nursing (Eudocrine), Adult Nursing (Urology), Introduction to Community Health Nursing, Nursing Practicum: Adult Nursing 1, Nursing Practicum: Adult Nursing 2, Nursing Practicum: Adult Nursing 3, Nursing Practicum: Maternity Nursing, Nursing Practicum: Oriental Nursing & Adult Nursing 4, Emergency Nursing, Rehabilitation Nursing, Statistics, East-West Complementary Nursing

Year 4
School Health, Nursing Administration 1, Adult Integrated Nursing, Community Health Nursing, Nursing Research, Nursing Law, Gerontological Nursing, Nursing Administration 2, Nursing Practicum: Pediatric Nursing, Nursing Practicum: Community Health Nursing, Nursing Practicum: Psychiatric/Mental Health Nursing, Nursing Practicum: Adult Nursing 5, Nursing Practicum: Nursing Administration & Elective Practice, Integrated Nursing Practicum, Graduation Thesis, Sasang Constitution and Nursing, Critical Thinking in Nursing, Culture and Nursing, Hospice and Nursing, Health Education, Nursing Informatics

Careers and Graduate Destinations
The students can achieve the Registered Nurse certification after the 4-year regular course by passing the national examination. Specifically, the graduates can play the role of promoting public health as a nurse, nursing administrator, public health teacher, industrial nurse, public health nurse and public health clinic director in domestic or overseas hospitals.

Faculty
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Ji-In Hwang, Ph.D. Seoul National University, 2001, Assistant Professor, Management, jihwang@khu.ac.kr
Je-A Lee, Ph.D. Case Western Reserve University, 2004, Assistant Professor, Gerontological Nursing, leejia@khu.ac.kr
Hyun-Sook Shin, Ph.D. Yonsei University, 2002, Assistant Professor, Pediatric Nursing, hsshin@khu.ac.kr
Sun-Hee Park, Ph.D. University of Pennsylvania, 2006, Assistant Professor, Community Health Nursing, spark@khu.ac.kr
Hyun-Jeong Shin, PhD. Korea University, 2003, Assistant Professor, Maternity Nursing, shinhj@khu.ac.kr
Youn-Hee Jeong, Ph.D. University of Illinois at Chicago, 2007, Full-time Lecturer, Adult Nursing, Pharmacology & Pathophysiology, yjeong2@khu.ac.kr
Eun-Kyoung Yun, Ph.D. Seoul National University, 2008, Full-time Lecturer, Nursing Informatics & Management, ekyun@khu.ac.kr
Sung-Hee Shin, Ph.D. Kyung Hee University, 2006, Full-time Lecturer, Psychiatric Mental Health Nursing, sungshin@khu.ac.kr
What is the RN/BSN Program?
3-year Nursing College graduates or provisional graduates who have nursing licenses can be specially matriculated into this course. Candidates are to be in the 3rd year, and after completing 4 semesters, a BS degree can be conferred. They can also obtain the license for public health teacher, 2nd degree social welfare worker, or pre-school teacher.

Nursing at Kyung Hee
The College of Nursing Science cultivates each nurse to be a qualified citizen and a person of creative problem solving ability to perform various roles for holistic care and to contribute to the construction of a welfare society for human beings. From the first graduates, the pass rate of the national exam has been maintained at 100%. Also the college is providing a systematic clinical education, on sites of various practices, at the Kyung Hee Medical Center or other community health organizations. It especially puts emphasis on the cultivation of creativity and autonomy for playing a role as a nurse on practice, globalization and national competitiveness along with acquisition of East-West nursing knowledge and skill completing the specialization of the college. Specific goals to meet the challenge are as follows: 1) Cultivation of qualities for cultured, cosmopolitan, professional, and democratic citizen. 2) Thorough learning of skills and knowledge to be an efficient nurse. 3) Solid education on professional ethics of nursing. 4) Cultivation of creativity and autonomy required for nursing experts to play an important role in the global world. 5) Cultivation of research capabilities required for problem-solving process. 6) Acquisition and application of the skills and knowledge of East-West medicine. 7) Cultivation of diverse roles of nurses, such as nursing provider, nursing manager, nursing educator, or nursing counselor so that they can effectively deal with health promotion, disease prevention, health recovery, or pain relief. 8) Cultivation of leadership qualities and cooperative spirit of nurses so that they can efficiently collaborate with healthcare professionals.

Degree Requirements
To receive the Bachelor of Science in Nursing, a student must:
* complete a minimum of 70 credit units.
* complete 27 credit units of Required Courses.
* complete 26 credit units of Electives for Nursing.

Courses
Year 3

Year 4
Nursing Information, Nursing Research, East-West Complimentary Nursing, Critical Thinking in Nursing, Clinic Trial and Nursing, Nursing and Business Administration, Nursing Biomedical Engineering, Social Welfare Research Method,

**Careers and Graduate Destinations**

Graduates can play a role specifically in domestic or overseas hospitals to promote public health as a nurse, a nursing administrator, a public health teacher, an industrial nurse, a public health nurse, a public health clinic director, or a preschool teacher.

**Faculty**

Hyun-Sook Kang, Ph.D. Seoul National University, 1985, Professor, Fundamental Nursing Science, hyunsuk@khu.ac.kr

Won-Ock Kim, Ph.D. Kyung Hee University, 2001, Professor, Fundamental Nursing Science, kwo704@hanmail.net

Kyung-Sun Hyun, Ph.D. Kyung Hee University, 2001, Professor, Adult Nursing, hks@khu.ac.kr

Jeong-Hwa Kim, Ph.D. Kyung Hee University, 2000, Professor, Adult Nursing, smileprof@khu.ac.kr

Myoung-Ja Wang, Ph.D. Kyung Hee University, 1999, Professor, Community Health Nursing, chundang@khu.ac.kr

Sang-Sook Han, Ph.D. Kyung Hee University, 1998, Professor, Anatomy & Physiology, sshan12@khu.ac.kr

Kwuy-Bun Kim, Ph.D. Kyung Hee University, 1990, Professor, Adult Nursing, kuikim@khu.ac.kr

Hye-Sook Shin, Ph.D. Kyung Hee University, 1994, Professor, Maternity Nursing, suks@khu.ac.kr

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Ji-In Hwang, Ph.D. Seoul National University, 2001, Assistant Professor, Management, jihwang@khu.ac.kr

Ji-A Lee, Ph.D. Case Western Reserve University, 2004, Assistant Professor, Gerontological Nursing, leejia@khu.ac.kr

Hyun-Sook Shin, Ph.D. Yonsei University, 2002, Assistant Professor, Pediatric Nursing, hsshin@khu.ac.kr

Sun-Hee Park, Ph.D. University of Pennsylvania, 2006, Assistant Professor, Community Health Nursing, spark@khu.ac.kr

Hyun-Jeong Shin, PhD. Korea University, 2003, Assistant Professor, Maternity Nursing, shinbj@khu.ac.kr

Youn-Hee Jeong, Ph.D. University of Illinois at Chicago, 2007, Full-time Lecturer, Adult Nursing, Pharmacology & Pathophysiology, yjeong2@khu.ac.kr

Eun-Kyoung Yun, Ph.D. Seoul National University, 2008, Full-time Lecturer, Nursing Informatics & Management, ekyun@khu.ac.kr

Sung-Hee Shin, Ph.D. Kyung Hee University, 2006, Full-time Lecturer, Psychiatric Mental Health Nursing, sunghshin@khu.ac.kr
College of Music

Department
Composition
Voice
Instrumental Music
What is Composition?
The study in music composition is designed as preparation for professional work in composition and related fields, such as teaching, arranging, score reading, computer music, music technology or similar activities which require professional competence in working with the materials of music.

Composition at Kyung Hee
The Department of Composition was founded in 1962 as the department of music. One year after that, it was elevated to Department of Composition, College of Music. In the Kyung Hee spirit of creative effort, innovative mind, and constructive cooperation, the Department of Composition plays an important role in the area of music.

Degree Requirements
To receive the Bachelor of arts in Composition major, a student must:
- complete a minimum of 130 credit units.
- complete 16 units of mandatory Courses.
- complete 54 units of studied in major field.
- complete 35 units of general studies in Humanities/Social Science.

Courses
Year 1
Year 2
Year 3
Year 4

Careers and Graduate Destinations
On the basis of creative teaching of prominent faculty members, the Department of Composition provides specialized training programs designed to prepare students to understand and organize composition theories. It also provides students with a variety of training for practical skills. Several concerts are held with foreign sister universities. Starting with the Kyung Hee Cantata in 1965, the Department of Composition has been holding national music concours for high school students and a variety of concert tours. The graduates of the department actively play leading roles in the music profession.
Faculty
Joon-Hong Kim, M.A. Accademia Nazionale di Santa Cecilia, 1987, Professor, Composition, jhkim@khu.ac.kr
Dong-Hee Woo, M.A. Osaka Music College, 1978, Professor, Composition, dhwoo@khu.ac.kr

What is Voice?
The degree program in voice is designed for students seeking a professional career as vocalist. The curriculum is designed to provide students with proper training in singing, acting, and directing musical performances.

Voice at Kyung Hee
The Department of Voice was founded in 1962 as the Department of Music and became Department of Voice in the College of Music in 1963. Its goal is to educate students to develop their abilities and provide them with a variety of musical performances. It trains students to obtain valuable view about life and world through beauty. It has educated artists who play important roles in creations of cultural world which is the mission of Kyung Hee University.

Degree Requirements
To receive the Bachelor of Arts Majoring in Vocal art, a student must;
• complete a minimum of 130 credit units.
• complete 16 units of mandatory Courses.
• complete 54 units of studied in major field.
• complete 35 units of general studies in Humanities/Social Science.

Courses
Year 1

Year 2

Year 3

Year 4
Careers and Graduate Destinations
The Department of Voice at Kyung Hee University, one of the best voice departments in Korea, provides students with a specialized training program to make them prominent artists. It is especially concentrating its resources to vocalization and opera acting education. Starting with the Kyung Hee Family Music Festival in 1965, it has been holding a variety of music events such as national music concours for high school students, operas, Kyung Hee Cantata, concert tours, opera concert, and concerts with foreign sister universities.

Faculty
Nam-Oak Baik, M.A. Seoul National University, 1969, Professor, Vocal, paik@khu.ac.kr
Jeung-Haung Eum, M.A. Kyung Hee University, 1968, Emeritus Professor, Vocal, eum@khu.ac.kr
Arm Kim, M.A. University of Koln, 1981, Professor, Vocal, arm@khu.ac.kr
Hoon Lee, M.A. University of Mainz, 1981, Professor, Vocal, hoon@khu.ac.kr
Soon-Bok Park, M.A. Kyung Hee University, 1983, Associate Professor, Vocal, bparkoks@hanmail.net

What is Orchestral Instruments and Piano?
The Instrumental degree program is designed to equip students with high professional skills essential to their major field and to make them balanced and outstanding musicians.

Orchestral Instruments and Piano at Kyung Hee
This department was founded in 1962 as the Department of Music and became the Department of Orchestral Instruments and Piano in the College of Music in 1963. Its goal is to educate students to express their emotions through musical instruments and to be independent artists. Through the process of research and musical performance, it is playing an important role in the creation of a cultural world, which is the mission of Kyung Hee University.

Degree Requirements
To receive the Bachelor in Orchestral Instruments and Piano, a student must:
- complete a minimum of 130 credit units.
- complete 16 units of mandatory courses.
- complete 54 units of courses in major field.
- complete 35 units of general studies in Humanities/Social Science.

Courses
- Piano
  Year 1
  Year 2
  Piano III, IV, Harmony III, IV, Ear Training and Sight Singing III, IV, History of Music I, II, Keyboard I, II,
Performance Practice I, II, Minor III, IV, Chorus III, IV
Year 3
Piano V, VI, Piano Literature I, II, Music of Twentieth Century I, History of Music I, II, Counterpoint I, II,
Accompanying I, II, Ensemble I, II, Performance Practice III, IV
Year 4

Instrumental Music
Year 1
II, Chamber Music Ensemble I, II, Minor I, II, Large Ensemble I, II
Year 2
Harmony I, II, String Ensemble III, IV, Wind Ensemble III, IV, Minor III, IV, Chamber Music Ensemble III, IV,
Large Ensemble III, IV
Year 3
Major Instrument V, VI, Music of Twentieth Century I, History of Music III, IV, Analysis of Music I, II,
Counterpoint I, II, Wind Ensemble V, VI, Performance Practice III, IV, Large Ensemble V, VI
Year 4
Music I, II, Orchestration I, Conducting Seminar I, II, Wind Ensemble VII, VIII, Large Ensemble VII, VIII

Careers and Graduate Destinations
The faculty members of this department, who have various musical performance careers, are concentrating their efforts
to prepare students to be professional artists and fully understand music. They are providing students with a variety of
musical performance experiences. The orchestra, established in 1956, has been demonstrating its musical skills through
various events such as the Kyung Hee Family Music Festival, opera tours, piano concerts, Kyung Hee chamber
orchestra concert, cantata of peace, and grand concert. Graduates actively play their parts in many orchestras.

Faculty

Piano
Chin-Sook Kim, M.A. Staatlichetlochschule fur Musik in Munchen, 1976, Professor, Piano, flower@khu.ac.kr
Hye-Kyung Suh, M.A. Julliard School, 1984, Professor, Piano, deeanne@khu.ac.kr
Kye-Ryung Suh, M.A. Conservatoire National Superieur de Musique de Paris, 1974, Professor, Piano,
skr@khu.ac.kr

Instrumental Music
Choon-Soo Chung, M.A. Hochschule der kunste Berlin, 1987, Professor, Violin, violin@khu.ac.kr
Mi-Ae Kim, Ph.D. University of Dortmund, 1987, Professor, Musicology, kmas@khu.ac.kr
Jong-Young Lee, M.A. Manhattan School of Music, 1970, Professor, V. Cello, Cello@khu.ac.kr
College of Fine Arts

School of Fine Arts
Korean Painting
Painting
Sculpture
What is Fine Arts?
The Art Division at the Art College is aimed at educating professional human resources who will keep up with the changes and the trends of globalization, while sustaining the tradition of Korean art. Specifically, it is committed to the training of artists and experts for various sectors within art and culture. With this end in mind, the Art College offers courses for three majors of Korean painting, painting, and sculpture. Not only basic courses but also advanced courses are provided to help students develop a creative mind-set and acquire the essential knowledge required in practical application even after graduation. Since the school’s policy aims to promote the creation of a rich cultural community, great importance is placed on the research of the various aspects of modern art and culture on a global scale along with the identity of Korean art.

Fine Arts at Kyung Hee
Art education at Kyung Hee University has a 33-year history. The curriculum was enlarged and reorganized in 1999 in order to offer a major in Fine Arts within the Art College. To date, about 1,500 graduates have achieved brilliant achievement in many foreign countries and in each field of domestic and foreign world of arts. Presently, they are doing their best in the creation of true and real beauty.

Degree Requirements
To receive the Bachelor of Fine Arts in painting, oriental painting, sculpture a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 21 units of Required Courses.
• complete 39 units of Electives Courses.
• complete 35 units stated in the common studies program.
• complete 35 units of General Electives.

Courses
Year 1
Impression of Art, Life and Works of Artists, Basic Drawing, Drawing, Practice in Formation 1, Practice in Formation 2, Expression Technique 1, Expression Technique 2, Human Anatomy
Year 2
History of Oriental Art, Theory of Plastic Form, History of Western Art, Practical Technique of Calligraphy
• Korean Painting Department: Study of Expression Technique, Visual and Critical Studies 1, Study of Color Painting, Visual and Critical Studies 2
• Painting Department: Study of Materials and Expression Method 1, Visual and Critical Studies 1, Study of Materials and Expression Method 2, Visual and Critical Studies 2
• Sculpture Department: Study of Materials and Expression Technique, Visual and Critical Studies 1, Study of Wooden
Structure, Visual and Critical Studies 2

Year 3
- Korean Painting Department: Study of Ink Painting in the Literary Artist’s Style 1, Visual and Critical Studies 3, Study of Ink Painting in the Literary Artist’s Style 2, Visual and Critical Studies 4

Year 4
Western Aesthetics, Theory of Korean Art Ideology, Theory of Contemporary Art, Study of Art Criticism, Sociology of Art

Careers and Graduate Destinations
- Out of a total of 1,500 graduates, more than 200 have gone on to become teachers or professors. Another 200 or more are practicing artists or artists engaged in the art industry as experts in various fields.
- More than 40 graduates work or study overseas in 6 different countries.
- The major professions that our graduates choose from are as follows: artists, professors, middle or high-school teachers, critics, curators, experts on aesthetics or art history, professionals in art-related areas such as media, film, indoor or outdoor architecture, etc.

Faculty
Jong-Hae Park, M.A. Kyung Hee University, 1976, Professor, Painting, z2pp@naver.com
Byung-Sik Choi, Ph.D. Sungkyunkwan University, 1992, Professor, Art Philosophy, spacebsc@unitel.co.kr
Jong-Bin Lee, M.A. Italy Carrara National Academy, 1988, Associate Professor, Sculpture, jblee@khu.ac.kr
Jeung-Eun Shon, M.A., M.F.A. Maryland Institute College of Art, USA, 1998, Associate Professor, Sculpture, madamshon@khu.ac.kr
Joung-Gap Park, M.F.A. Hongik University, 1998, Assistant Professor, Korean Painting, namu42@khu.ac.kr
Dong-Yeon Kim, M.A. Dusseldorf Kunstakademie, Germany, 1993, Instructor, Painting, sprache3@hanmail.net
Tae-Hoo Lee, B.A., M.F.A. Hongik University, 1980, Instructor, le_etae_ho@hotmail.com
Hyoung-Min Na, Completion of D.F.A, Seoul National University 2007, Instructor, leesun@khu.ac.kr
College of Art and Design
(School of Dance)

School of Dance
Korean Dance
Modern Dance
Ballet
What is Dance?
Dance is an art of time and space that expresses people’s emotions, senses or ideas through body motions. It is ‘danse’ in French, ‘tanz’ in German, ‘danza’ in Italian, and ‘tan’ in Sanskrit.

Dance as an art is defined as the expression of ideas and thoughts and the representation of aesthetic values by forming spaces through the motion of the human body.

Dance is based on the movements of our body. Because a human body has an instinctive function that exhibits its internal movement, dance is an art that is represented not merely by bodily expression but by the combination of the body and the mind.

Dance at Kyung Hee
The School of Dance was founded with the basic philosophy of cultivating talented people that pursue science and art and harmony of artistic sensitivity. Its purpose is to educate talented people who can contribute to community and the field of culture and art and to nurture great scholars, by restoring artistic sentiment to community through big and small performances and further, producing prominent dancers that are active on world stages.

As a mediator of education of dance pursuing cultivation of dance artists and movement of body, the School of Dance will provide the instruction of practical skills to socially realize the philosophy of ‘education through dancing’ and pursue physical, emotional, and intellectual development. The main axis of the instructor group consists of professionals in the School of Dance, which is a leader of globalism of Korean dancing. Experts of dance education, the school teaches a systematic method of dance instruction. The aim of the education is as follows:

- Cultivation of active dance artists who first figure out and interact with the current of the times
- Cultivation of guiding dance artists who lead advancement and popularization of dance art
- Cultivation of creative dance artists who have the ability of instructing and choreographing new dance works

Degree Requirements
To receive the Bachelor of Dance, a student must:

- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 22 units of Required Courses.
- complete 42 units of Electives Courses.
- complete 6 units of Department Culture Courses.
- complete according to school regulation of Common Culture Courses.

Courses
Year 1
Introduction to Dance, Practice of Percussion Instruments (Korean), Practice of Percussion Instruments (Western), Practical Talent of Korean Dance, Practical Talent of Modern Dance, Practical Talent of Ballet

Year 2
Korean Dance, Modern Dance, Ballet, History of Korean Dance, History of Western Dance, Body Mine, Trend of
Dance, How to Make-Up for Dance, Dance Music (Korean Classical Music), Dance Music (Western Classical Music), Body Conditioning, Development of Performing Arts Program

Year 3
Principle of the Major I (Korean Dance), Principle of the Major I (Modern Dance), Principle of the Major I (Ballet), Creation Practice (Korean Dance), Creation Practice (Modern Dance), Creation Practice (Ballet), Minor Practice (Korean Dance), Minor Practice (Modern Dance), Minor Practice (Ballet), Theory of Creation, Repertoire of Modern Dance, Repertoire of Ballet, Musical Theatre, Study of Intangible Cultural Assets, Study of Dance ’ s Studies, Special Lecture on Folk Art, Stage Costume, Special Make-Up, Art Management, Method of Dance Accident, Dancing-Sociology, Dance Aesthetic, Study of Physical Injury in Dance, International Cultural Exchange

Year 4
Principle of the Major II (Korean Dance), Principle of the Major II (Modern Dance), Principle of the Major II (Ballet), Practice of Perform (Korean Dance), Practice of Perform (Modern Dance), Practice of Perform (Ballet), Practice of Work (Korean Dance), Practice of Work (Modern Dance), Practice of Work (Ballet), Folklore, Art Culture Policies, Criticism of Dance, Improvisation, Stage Art, Study of Art Publicity Media

Careers and Graduate Destinations
Careers and graduate destinations of students include dance educator, a professor, a dancing master (at a primary school, a secondary school, a high school, a university, a proprietary school), dancer (Korean dance, Modern dance, Ballet), choreographer and others (designer, make-up artist, a planner).

Faculty
Mal-Ae Kim, Ph.D. Dongdeok Women’s University, 2005, Professor, Korean Dance, makj@khu.ac.kr
Hwa-Rye Kim, Ph.D. Myongji University, 1994, Professor, Ballet, khrye52@hanmail.net
Myung-Sook Park, Ph.D. Hanyang University, 1994, Professor, Modern Dance, scdc305@hanmail.net
Mi-Ra Yoon, M.A. Sungkyunkwan University, 2006, Professor, Korean Dance, aurora@khu.ac.kr
Byung-Ju Ahn, Ph.D. Dongdeok Women’s University, 2005, Professor, Dance Theory, ncefan@hanmail.net
College of Global Eminence

Global Leader
Global Business
What is Department of Global Eminence?
Department of Global Eminence is a new school that has three majors: Global Leader, Global Business and Convergence Science. Students can enter Department of Global Eminence without deciding certain major in advance. Instead, there will be a period for submitting applications that is for fixing up their own major before they become a sophomore. Students can freely decide their major according to their aptitude and interest. It is sure that Department of Global Eminence has unique curriculums and offers utmost educational experiences to the students.

Global Leader at Kyung Hee
Global Leader offers valuable curriculum that is helpful to students who want to enter law school and become a leader of globalized society. The Global Leader curriculum contains various subjects such as law, administration, politics and diplomacy, economics, and so forth.

Degree Requirements
To receive the Bachelor of Social Science in Global Leader, a student must:

- complete a minimum of 130 credit unit.
- satisfy the General Requirements of the School for professional degrees.
- complete 30 credit units of Required Courses.
- complete 30 credit units of Elective Courses for Social Science.*
- complete 35 credit units (maximum 56 credit units) stated in the common studies program and Humanities/Social Science Electives.

* In case of double major, complete 6 credit units of Elective Courses for Social Science.

Courses

Year 1

Year 2
Constitutional Law, Theories of International Relations, Organization Theories, Global Leadership Development Seminar 2

Year 3
General Principles of Civil Law, Comparative Politics, Social Psychology, Introduction to Public Policy, Global Leader for Public Service Seminar 1, Global Leadership Internship Seminar, Global Leader for Academic Excellence Seminar 1

Year 4
Theories of Communication, Global Leader for Public Service Seminar 2, Global Leader for Academic Excellence Seminar 2
Careers and Graduate Destinations
Global Leader provides students with a promising future. After graduating from Global Leader, the students can enter law school to work in a field of legal system. And they can work at international organizations like the UN because Kyung Hee always tries to build close and cooperative relationships with them. Students who major in Global Leader will grow up as a genuine global leader in various fields of law, administration, politics and diplomacy, and economics, etc.

Faculty
Jong-Ho Kim, Ph.D. Syracuse University, 1993, Professor, Policy, jongkim@khu.ac.kr

College of Global Eminence

Global Business

Tel: +82 2 961 0944-5  Fax: +82 2 961 0879  E-mail: khsa0945@khu.ac.kr  URL: http://globaleminence.khu.ac.kr

What is Department of Global Eminence?
Department of Global Eminence is a new school that has three majors: Global Leader, Global Business and Convergence Science. Students can enter Department of Global Eminence without deciding certain major in advance. Instead, there will be a period for submitting applications that is for fixing up their own major before they become a sophomore. Students can freely decide their major according to their aptitude and interest. It is sure that Department of Global Eminence has unique curriculums and offers utmost educational experiences to the students.

Global Business at Kyung Hee
Global Business aims at developing professional and capable members of society. Global managers conduct core functions in a globalized society that need to have knowledgeable human capital. Modern society requires professionals with original ideas and valuable work by self-determination. If students get all necessary requisites for studying abroad, they can acquire a dual degree. All subjects in Global Business are progressed in English to improve our students comprehensive abilities in English. Studying in other countries, student can expand their keen insight, penetration, logicality, and ability for analysis and problem solving.

Degree Requirements
To receive the Bachelor of Business Administration in Global Business, a student must:
• complete a minimum of 130 credit unit.
• satisfy the General Requirements of the School for professional degrees.
• complete 18 credit units of Required Courses.
• complete 39 credit units of Elective Courses for Business Administration.*
• complete 35 credit units (maximum 56 credit units) stated in the common studies program and Humanities/Social Science Electives.
* In case of double major, complete 27 credit units of Elective Courses for Business Administration.
Courses

Year 1

Year 2

Year 3

Year 4
Global Business Internship, Valuation Theory, Management Course, Brand Management

Careers and Graduate Destinations

Global Business ensures students’ brilliant future. After acquiring Bachelor of Business Administration in Global Business, students can continue to study for achievement of Master of Business Administration. And they can also work at promising government enterprises or private businesses. Further, they will become well known people as influential CEO.

Faculty
Yang-Kyun Kim, Ph.D. University of South Carolina, 2000, Associate Professor, Health Service Management Policy, lukekim@khu.ac.kr
Humanitas College
(Seoul)
Goals of Liberal Arts Education at Humanitas College
“Better, more mature, and more useful humans.”
To ensure young people will advance into society as better, more mature, and more useful humans than when they begin their university studies - this is the essential goal of and reason for university education and the basic responsibility entrusted to universities by society.

Courses

<table>
<thead>
<tr>
<th>Classification</th>
<th>Course</th>
<th>Credits</th>
<th>Year to take</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Core courses</td>
<td>Human Quest for Values</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 1st semester of the 1st year</td>
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<td></td>
<td>The World We Live In</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 2nd semester of the 1st year</td>
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<td></td>
<td>Sub total</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required basics</td>
<td>Writing 1</td>
<td>2</td>
<td>1st year</td>
<td>Compulsory in the 1st year [Two credits, three hours]</td>
</tr>
<tr>
<td></td>
<td>Writing 2</td>
<td>2</td>
<td>2nd year</td>
<td>Compulsory in the 2nd year [Two credits, three hours]</td>
</tr>
<tr>
<td></td>
<td>English 1</td>
<td>2</td>
<td>1st year</td>
<td>Compulsory in the 1st year [Two credits, three hours]</td>
</tr>
<tr>
<td></td>
<td>English 2</td>
<td>2</td>
<td>1st or 2nd year</td>
<td>Compulsory in the 1st or 2nd year [Two credits, three hours]</td>
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<tr>
<td></td>
<td>Civic education</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 1st year [theoretical class + Community service]</td>
</tr>
<tr>
<td></td>
<td>Sub total</td>
<td>11 or more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
“Major-related liberal arts,” which had been part of the liberal arts education program until 2010, is to be changed to “basics for the major” and run as part of the major program of the appropriate college or department starting in 2011. The basic structure of liberal arts education courses no longer indicates courses under the previous major-related liberal arts classification.

### Faculty

Sang-Im Lee, Ph.D. University of Hawai‘i at Manoa, 1995, Associate Professor, Comparative Philosophy, silee@khu.ac.kr

Sung-A Kim, Ph.D. University of Texas at Austin, Associate Professor, Phonetics, sakim@khu.ac.kr

Bok-Chul Jeong, Ph.D. Kyung Hee University, 2002, Assistant Professor, Political Ideas, jbc@khu.ac.kr

Dong-Kun Kim, Ph.D. Kyung Hee University, 2001, Associate Professor, Korean Language and Literature, dehi@khu.ac.kr

Jin-Hae Kim, Ph.D. Kyung Hee University, 2000, Associate Professor, Korean Language and Literature, jinhae@khu.ac.kr

Su-Yee Kim, Ph.D. Kyung Hee University, 1997, Associate Professor, Korean Language and Literature, whitesnow1@hanmail.net

In-Hwan Ko, Ph.D. Kyung Hee University, 1998, Associate Professor, Korean Language and Literature, Koinh@hanmail.net

Jong-Gu Lee, Ph.D. Kyung Hee University, 1999, Assistant Professor, Business Management, ss83@khu.ac.kr

Hwa-Young Jeong, Ph.D. Kyung Hee University, 2004, Assistant Professor, Computer Engineering, hyjeong@khu.ac.kr

Young-Ae Ha, Ph.D. National Taiwan University, 1989, Assistant Professor, Comparative Politics, hayoungae@hanmail.net

Gi-Suk Kim, Ph.D. New York University, Professor, Psychology, krichardkim@gmail.com

Emanuel Yi Pastreich, Ph.D. Harvard University, Assistant Professor, Phonetics, epastreich@khu.ac.kr

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### Liberal Arts Education Course Requirements

<table>
<thead>
<tr>
<th>Classification</th>
<th>Course</th>
<th>Credits</th>
<th>Year to take</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution requirements</td>
<td>Required to select five out of seven categories</td>
<td>15 or more</td>
<td>All years</td>
<td>Three credits for three hours in each course</td>
</tr>
<tr>
<td>- Life, Body, &amp; Symbiotic Systems</td>
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<tr>
<td>- Nature, Universe, Matter, &amp; Technology</td>
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<tr>
<td>- Meaning, Symbols, &amp; Empathy</td>
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<td>- Society, Community, Nation, &amp; Market</td>
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<tr>
<td>- Peace, Nonviolence, &amp; Ethical Reasoning</td>
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<tr>
<td>- History, Culture, &amp; Communication</td>
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<tr>
<td>- Logic, Analysis, &amp; Mathematical Reasoning</td>
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<tr>
<td>Sub total</td>
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<td>15 or more</td>
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<tr>
<td>Electives</td>
<td>Electives</td>
<td>3 or more</td>
<td>All years</td>
<td>Select among foreign languages, physical education, arts, and other categories</td>
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<tr>
<td>Sub total</td>
<td></td>
<td>3 or more</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total liberal arts education credits</td>
<td></td>
<td>35 or more</td>
<td></td>
<td>Up to 56 credits can be recognized</td>
</tr>
</tbody>
</table>

※ “Major-related liberal arts,” which had been part of the liberal arts education program until 2010, is to be changed to “basics for the major” and run as part of the major program of the appropriate college or department starting in 2011. The basic structure of liberal arts education courses no longer indicates courses under the previous major-related liberal arts classification.
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Adrian Smith, M.A. University of South Australia, Assistant Professor, TESOL, yogi2436@yahoo.com
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Stephen Neil Mangan, M.A. University of Wales, Full-time Lecturer, Historical Philosophy, smangan@hotmail.co.uk
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College of Engineering

Department
Mechanical Engineering
Industrial & Management Systems Engineering
Nuclear Engineering
Chemical Engineering
Advanced Materials Engineering for Information and Electronics
Civil Engineering
Architectural Engineering
Environmental Science and Engineering
Architecture
What is Mechanical Engineering?
Mechanical Engineering is the most basic part needed in industries and it is especially important to a developing country like Korea since it will increase the productivity and enhance the strength to compete. The importance of mechanical engineering ranges from parts made in a small factory to those produced in the large manufacturing plants. In this respect, increasing numbers of mechanical engineers have advanced to management positions and some have even become top executive officers. The mechanical engineering major is divided into two groups: heat & fluid and material & production. Heat & fluid area specify heat and fluid movement including related propulsion and power, energy transformation. Material & production specify material properties, structure stability, design, production and control constituting mechanical system. Research fields related to mechanical engineering are automobile, aircraft, space shuttle, turbo machinery field, structure analysis, and material analysis system. Material & production includes ceramic material, applied dynamics, material strength, precision engineering, mechanical dynamics, automatic control, and CAD/CAE.

Mechanical Engineering at Kyung Hee
The department of Mechanical Engineering was originally established as the Department of Mechanical Engineering in 1967 with 25 students within the College of Engineering. Master’s and doctoral courses were opened in 1972 and 1973. The department office was moved from Seoul to Suwon in 1990 under the University Development and Expansion Plan. The department received the most excellent award in the nationwide department evaluation contest in 1993. Acknowledged fields were educational facility, research publication and academic performance of the leading university. Practical training laboratories in the area including machining process, applied dynamics, fluid mechanics, heat & thermodynamics engineering and instrumentation/control are well established. In the graduate level, 15 laboratories are focused on the research subjects readily applicable to industrial products. Many cooperative projects between the department and the industry provide many experiences needed by the students.

Degree Requirements
To receive the Bachelor of Science in Mechanical Engineering, a student must:
- complete a minimum of 136 credit units.
- complete 13 units of General studies.
- for professional degree complete 28 units of required courses and 32 units of major electives.
- for double degree complete 9 units of required courses and 40 units of Major electives.
- acquire the CRS (Competence Requirement System) certification of English and Computer literacy.

Courses
Year 1
General Physics and Laboratory 1, General Physics and Laboratory 2, General Chemistry, General Biology, Material Engineering, Fundamental Engineering Design, Calculus 1, Calculus 2

Year 2
Engineering Mathematics 1, Engineering Mathematics 2, Basic Programming, Mechanical Mechanism, Engineering

Year 3

Year 4

Careers and Graduate Destinations
Graduates of mechanical engineering advance to various research laboratories and industries as field engineers. After finishing the more advanced graduate level major courses, several research and academic positions are available in the related institutes. After passing the national technical examination, some graduates work in the government. Based on the knowledge achieved in the major courses, business can be opened using venture capital and some are preparing to open either an Internet or information & communication related business. National technical certificates can be acquired in the areas including general machinery engineer, construction machinery engineer, refrigeration & ventilation engineer, fire extinguisher facility engineer, information processing engineer, etc.

Faculty
Kyung-Suk Park, Ph.D. Inha University, 1980, Professor, Thermal Engineering, ks2507@khu.ac.kr
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Sung-Su Rhim, Ph.D. Georgia Institute of Tech, 2000, Associate Professor, Automatic Controls, ssrhim@khu.ac.kr
June-Mo Koo, Ph.D. North Carolina State University, 2005, Assistant Professor, Computational Particle and Fluid Dynamics, jmkoo@khu.ac.kr
Byeong-Chan Lee, Ph.D. Stanford University, 2005, Assistant Professor, Materials Theory, airbc@khu.ac.kr
Won-Gu Lee, Ph.D. Seoul National University, 2007, Assistant Professor, Optofluidic Engineering, termylee@khu.ac.kr
Duk-hyun Choi, Ph.D. Postech, 2006, Instructor, Mechanical Engineering, dchoi@khu.ac.kr, dchoi.khu.ac.kr
What is Industrial & Management Systems Engineering?
Industrial & Management Systems Engineering is a broad field concerned with the design and management of production operations and with the development of management decision-assisting systems involving information and control elements. The curriculum explicitly provides topics useful in dealing not only with the physical aspects of problems, but also with organizational, economic and human aspects. Such problems are found in industry as well as in service organizations and government agencies. To analyze and solve the problems of operation, production, and information systems, the department emphasizes the cultivation of technical knowledge and provides the students with original and efficient research ability. Industrial & Management Systems Engineering provides courses not only necessary in the specific field but also essential in the other engineering fields.

Industrial & Management Systems Engineering at Kyung Hee
The department of Industrial & Management Systems Engineering was established in 1979, corresponding to the needs of educating industrial & management systems engineers for booming industrial sectors in Korea. Industrial & Management Systems Engineering involves quality management and engineering, production management, operations research, management information system, and CAD/CAM, human factors engineering, engineering economics, business process management. Recently, the major has expanded to include non-traditional industrial engineering fields involving financial engineering, environment control, and product liability. The graduate program in Industrial & Management Systems Engineering was founded in 1990 to provide graduate students with a variety of industrial research projects and professional practice. Other graduate programs are also available at the Industrial Liaison Research Institute at Kyung Hee University.

Degree Requirements
To receive the Bachelor of Engineering in Industrial & Management Systems Engineering, a student must:
- complete a minimum of 136 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 33 units (for ABEEK*) or 3 units (for non-ABEEK) of Required Courses.
- complete 27 units (for ABEEK) or 46 units (for non-ABEEK) of Technical Electives for Industrial & Management Engineering.

* ABEEK: Accreditation Board for Engineering Education of Korea

Courses
Year 1
Fundamental Engineering Design

Year 2
Simulation

Year 3

Year 4

Careers and Graduate Destinations
Graduates from Industrial Engineering advance to mechanical/electronic manufacturing companies, consulting, information communication systems, computer application businesses, government organizations, regulatory institutes. These days, Internet business and venture capital are new job fields. National technical certificates can be acquired in the areas including quality control, logistics, CPIM, CIRM, ISO 9000, industrial safety, and information processing, etc.

Faculty
Yang-Byung Park, Ph.D. Oklahoma State University, 1984, Professor, Industrial Engineering, ybpark@khu.ac.kr
Hyo-Seong Lee, Ph.D. University of Michigan, 1988, Professor, Industrial Engineering, hslee@khu.ac.kr
Sang-Kuk Kim, Ph.D. University of Wisconsin, Madison, 1989, Professor, Management (MIS, Management Strategy), sangkkim@khu.ac.kr
Seong-Nam Byun, Ph.D. University of Michigan, 1991, Professor, Industrial Engineering, snbyun@khu.ac.kr
Young-Jin Kim, Ph.D. University of California, Berkeley, 1991, Professor, Mechanical Engineering, yjkim@khu.ac.kr
Deok-Joo Lee, Ph.D. Seoul National University, 1995, Associate Professor, Industrial Engineering, ldj@khu.ac.kr
Chang-Ho Chin, Ph.D. Texas A&M University, 2004, Assistant Professor, Industrial Engineering, chin@khu.ac.kr
Jae-Yoon Jung, Ph.D. Seoul National University, 2005, Assistant Professor, Industrial Engineering, jyyjung@khu.ac.kr

What is Nuclear Engineering?
Nuclear engineering is applied engineering for the peaceful utilization of radiation and immense energy from atomic nuclei, which has a goal of satisfying future energy needs. Therefore, nuclear engineering has two major tracks in our curriculum: nuclear power engineering and radiation technology.
Both tracks start from an understanding of nuclear physics and mathematics. The nuclear power engineering track can be divided into three fields: (1) fission power plant engineering which is for design, construction, and operation of nuclear power plants, (2) nuclear fuel engineering for material development, fuel management, radioactive waste management, and fuel economics, and (3) fusion science and engineering which is an on-going research and development area for future energy source. A radiation technology track is aimed for protection and application of radiation in many fields, such as

College of Engineering
Department of Nuclear Engineering

Tel. +82 31 201 2558    Fax. +82 31 202 8106    E-mail : asnuclear@khu.ac.kr    URL : http://ne.khu.ac.kr
industrial non-destructive test, gene engineering, food preservation, and medical applications.

Nuclear Engineering at Kyung Hee

Since the establishment of the nuclear engineering program in 1979, the department has operated the only educational research reactor in Korea, AGN-201, and provided many courses in broad academic areas as follows: reactor physics, radiation detection, health physics, thermal hydraulics, nuclear fuel design and management, nuclear reactor materials, and radioactive waste management.

The curriculum is composed of over 50 subjects certified by ABEEK (Accreditation Board for Engineering Education of Korea) program.

Graduate courses for Ph.D. candidates and Master’s candidates are offered to fulfill the demands of research manpower in the nuclear industry.

The Nuclear Engineering Department pursues three educational goals: 1) training students to become researchers who will do R&D work on new technologies, 2) training students as engineers who will manage and operate nuclear power plants and related facilities, and 3) training students as technical managers who will manage small businesses for radiation applications.

Degree Requirements

To receive the Bachelor of Science in Nuclear Engineering, a student must:

* complete a minimum of 136 credit units.
* satisfy the General Requirements of the College and Department.
* complete 30 units (for ABEEK program) of MSC (Mathematics, Science, and Computer courses).
* complete 18 credit units of required courses and 42 credit units of elective courses in Nuclear Engineering major including 18 credit units of Nuclear Engineering design courses (for ABEEK program).
* complete 24 credit units of required courses and 25 credit units of elective courses in Nuclear Engineering major (for non-ABEEK program).
* acquire a minimum English proficiency test score of TOEIC 700.

Courses

Year 1
Calculus 1, Calculus 2, Physics and Laboratory 1, Physics and Laboratory 2, General Chemistry, General Biology, Introduction to Engineering Computer Programming, Fundamental Engineering Design

Year 2

Year 3

Year 4

Careers and Graduate Destinations

* Research & Development: Advanced Reactors, Reactor Physics, Thermo Hydraulics, Material, Nuclear Safety, Instrumentation & Control, Health Physics, Medical Physics
Health & Medical Physics: Occupational, Environmental, or Medical Dosimetry, Physicist for Radiation Diagnosis or Radiotherapy

Governments & NGOs: International Organizations, Nuclear Industry Planning, Regulatory Authority, Non-Governmental Organizations for Nuclear Use

University: Faculties in Department of Nuclear Engineering, Energy System Engineering, Nuclear Medicine

Faculty

Sang-Nyung Kim, Ph.D. Massachusetts Institute of Technology, 1984, Professor, Thermal Hydraulics, snkim@khu.ac.kr

Myung-Hyun Kim, Ph.D. Massachusetts Institute of Technology, 1988, Professor, Reactor Physics, mhkim@khu.ac.kr

Kwang-Hun Park, Ph.D. University of California, Berkeley, 1989, Professor, Nuclear Material, kpark@khu.ac.kr

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Gyun-Young Heo, Ph.D. KAIST, 2004, Assistant Professor, Nuclear System, gheo@khu.ac.kr

Kwang-Pyo Kim, Ph.D. University of Florida, 2005, Assistant Professor, Health Physics, kpkim@khu.ac.kr

Yoon-Suk Chang, Ph.D. Sungkyunkwan University, 1996, Assistant Professor, Solid and Fracture Mechanics, yschang@khu.ac.kr

Hyung-Dae Kim, Ph.D. Pohang University of Science and Technology, 2007, Full-time Lecturer, Thermal Hydraulics, hdkins@khu.ac.kr

What is Chemical Engineering?
Chemical engineering is an exciting, challenging major which operates at the leading edge of technology. Chemical engineering is an integrated engineering based on the principles of chemistry, physics, mathematics, and biology, and is widely applied to many fields of industry. It has made great contributions to the foundation and development of the nation’s heavy and chemical industries during the past few decades of Korea. It covers the major portion of the gross national product. Its application areas are being expanded to fine chemicals, advanced materials, biochemical engineering, energy, environment, display materials and process engineering.

Chemical Engineering at Kyung Hee

- Establishment of Chemical Engineering Department in College of Science (1966)
- Establishment of Chemical Engineering Department in College of Engineering (1969)
- Opening of Graduate Program for Master's degree in Chemical Engineering (1972)
- Opening of Graduate Program for Ph.D. degree in Chemical Engineering (1973)
- Moved to Suwon Campus from Seoul Campus (1985)
- Converted to Chemical Engineering Major in Division of Chemical, Textile and Industrial Engineering (1997)
- Converted to Chemical Engineering and Advanced Materials Major in Division of Environmental Applied Chemical Technology (1999)
- Converted to Chemical Engineering and Advanced Materials Engineering Major in College of Environment and
Applied Chemistry (2000)
- Converted to Chemical Engineering Major in College of Environment and Applied Chemistry (2007)
- Converted to Department of Chemical Engineering in College of Engineering (2009)
- Certificated the ABEEK (Accreditation Board for Engineering Education of Korea) Program (2009)

Degree Requirements
To receive the Bachelor of Chemical Engineering, a student must:
- complete a minimum of 136 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 15 units (21 units for ABEEK program) of Required Courses for Chemical Engineering.
- complete 34 units (39 units for ABEEK program) of Elective Courses for Chemical Engineering.

Courses
Year 1
Mathematics, Chemistry, Physics, Biology

Year 2
Fundamental Chemical Engineering and Experiment, Fundamental Calculations in Chemical Engineering, Chemical Engineering Physical Chemistry 1, Engineering Organic Chemistry, Engineering Analytical Chemistry, Advanced Engineering Mathematics 1, Chemical Engineering Fluid Mechanics, Chemical Engineering Thermodynamics, Applied Biochemistry, Fundamental Engineering Design (for ABEEK)

Year 3

Year 4

Careers and Graduate Destinations
A career in chemical engineering offers challenging and well-compensated positions in electronics, pharmaceutical, and biotechnology industries including business consulting. Graduates may supervise the operation of chemical plants, redesign chemical processes for pollution prevention, or be involved in the research and development of new products or processes in high technology areas. In the petroleum industry, for example, our national need for fuels demands well-trained chemical engineers in catalysis. A significant number of chemical engineers are also hired by industries associated with colloids, polymers, and coatings. Moreover, exciting new opportunities exist in biotechnology, the computer industry, environmental firms, display materials and consulting companies.

Faculty
Suk-Jin Choung, Ph.D. State University of New York, Buffalo, 1982, Professor, Chemical Engineering, sjchoung@khu.ac.kr
Chang-Ho Park, Ph.D. Purdue University, 1989, Professor, Biochemical Engineering, chpark@khu.ac.kr
Yong-Taek Lee, Doctor of Engineering University of Tokyo, 1988, Professor, Synthetic Chemistry, yongtlee@khu.ac.kr
Sung-Soo Kim, Ph.D. University of Texas at Austin, 1990, Professor, Chemical Engineering, sungkim@khu.ac.kr
Bom-Sock Lee, Ph.D. Purdue University, 1992, Professor, Process System, bslee@khu.ac.kr
Sung-Hun Ryu, Ph.D. Stevens Institute of Technology, 1991, Professor, Polymer Processing and Nanocomposite, shryu@khu.ac.kr
Woo-Sik Kim, Ph.D. Pennsylvania State University, 1992, Professor, Materials Crystallization, wskim@khu.ac.kr
Sang-Hyon Paek, Ph.D. Columbia University, 1998, Professor, Polymer Science, shpaek@khu.ac.kr
Young-Chul Kim, Ph.D. KAIST, 1991, Professor, Organic/Polymer Electronic & Display Materials, kimyc@khu.ac.kr
Eun-Yeol Lee, Ph.D. Seoul National University, 1995, Professor, Biochemical Engineering, eunylee@khu.ac.kr
Jin-So Kim, Ph.D. University of Cincinnati, 1999, Associate Professor, Chemical Engineering, jkim21@khu.ac.kr
Jae-Hyung Park, Ph.D. Gwangju Institute of Science and Technology, 2002, Assistant Professor, Biomedical Polymer, jaehyung@khu.ac.kr
Chang-Woo Lee, Ph.D. Illinois Institute of Technology, 2003, Assistant Professor, Chemical Engineering, cwlee@khu.ac.kr
Ho-Seok Park, Ph.D. KAIST, 2008, Full-time Lecturer, Chemical & Biomolecular Engineering, phs0727@khu.ac.kr

What is Advanced Materials Engineering for Information & Electronics?
Advanced Materials Engineering for Information & Electronics is an interdisciplinary field involving the properties of matter and its applications for next-generation leading technology related to information displays, electronics/semiconductors, and energy materials. This field investigates the relationship between the structure of materials at atomic or molecular scales and their macroscopic properties for final applications based on applied physics and chemistry.

Advanced Materials Engineering for Information & Electronics at Kyung Hee
The Department of Advanced Materials Engineering for Information & Electronics aims to academically deal with organic and inorganic advanced materials related to information and electronics. Especially, we are cultivating interdisciplinary experts in the advanced materials field via a specialized curriculum focused on new technology trends. Our curriculum is focusing on graduate ’s competitiveness by dealing with courses ranging from basic science (Physics/Chemistry/Polymer/Metal/Ceramics) to industrial applications (Displays/Semiconductors/Energy storage devices/Electronic devices) in the field of materials for information and electronics. It seeks to cultivate engineering experts having both practical knowledge and application technology by educating information displays, electronics/semiconductors, and energy materials based on fundamental science.

Degree Requirements
To receive a Bachelor of Science (BS) in Advanced Materials Engineering for Information & Electronics, a student must:
- complete a minimum of 136 credit units.
- satisfy the general requirements of the program for a professional degree.
* complete 12 credit units of required courses.
* complete 49 credit units including 12 credit units of required courses and 37 credit units of elective core courses.

Courses

Year 1
Introduction to Engineering Computer Programming, Calculus I, Calculus II, Chemistry and Lab I, Chemistry and Lab II, Physics and Lab I, Physics and Lab II

Year 2

Year 3

Year 4

Careers and Graduate Destinations

* Key role in the fields related to information technology (IT), nanotechnology (NT) and energy-technology (ET), cores of our country’s next-generation leading technology
* Experts in display/semiconductor/energy corporate, national research institutes, advanced materials industries, etc.
* Future careers will be continuously expanded as a fusion technology among IT, NT, and ET.

Faculty

Kap-Jin Kim, Ph.D. Seoul National University, 1985, Professor, Polymer Electronic Materials, kjkim@khu.ac.kr
Joon-Youl Lee, Ph.D. Pennsylvania State University, 1988, Professor, Polymer Science, jylee@khu.ac.kr

College of Engineering

Department of Civil Engineering

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What is Civil Engineering?

Civil Engineering is a very broad field that contributes to public welfare and encompasses all aspects of planning, design, construction, and physical facilities including highways, harbors, airports, bridges, tunnels, power-plants, off-shore structures, dams, water treatment and distribution facilities, and mass transportation systems. There are a variety of fields...
in the department including Geotechnical Engineering, Highway Engineering, Structural Engineering, Water Resources Engineering, and Environmental Engineering.

Civil Engineering at Kyung Hee

Civil Engineering at Kyung Hee University is an ABEEK-accredited program. The primary educational goal of the civil engineering major is to educate an engineer who can cope with social demands and a scientist who can transfer the newly developed knowledge to society. There are various fields in the department including Geotechnical, Structural, Water Resources, Hydraulic, Environmental and Highway Engineering. The department encourages students to apply their classroom knowledge and develop their creative potentials and abilities through various on- and off-campus activities. Most graduates work in the government, research centers, public and private construction and engineering companies, or continue to study in graduate school.

Degree Requirements

In order to receive the Bachelor of Engineering in Civil Engineering, students must:
• complete a minimum of 136 credit units.
• complete a minimum of 30 units of MSC (Mathematics, Science, and Computer courses).
• complete 21 credit units of required courses and 39 credit units of elective courses in civil engineering major including 18 credit units of civil engineering design courses.
• satisfy the General Education Requirements of the university.
• satisfy all ABEEK requirements including program outcomes of the department.
• acquire a minimum English proficiency of TOEIC 700.

Courses

Year 1
Linear Algebra, Calculus 1, Calculus 2, Physics and Experiment 1, Physics and Experiment 2, General Chemistry, Fundamental Physics, Introduction to Engineering Computer Programming, Fundamental Engineering Design, Introduction to Construction Engineering

Year 2

Year 3

Year 4

Careers and Graduate Destinations

Upon graduation, students will have opportunities to find appropriate jobs in a variety of fields of Civil Engineering. Graduates normally work in construction companies, engineering firms, government agencies, and research centers. They can also continue to study in a graduate program in Civil Engineering.

Faculty
Jae-Soo Shim, Ph.D. Seoul National University, 1986, Professor, Civil Engineering, jsshim@khu.ac.kr
Zoo-Ok An, Ph.D. Korea University, 1989, Professor, Structure Engineering, zoan@khu.ac.kr
What is Architectural Engineering?
Architectural Engineering is a branch of engineering devoted to study and understanding of building systems as well as construction of buildings. Architectural Engineering is classified into three major areas: environmental system engineering, structural engineering, and construction engineering and management. Environmental systems engineering is composed of electrical, communications and control, lighting, heating, ventilating, air conditioning, fire protection, plumbing, and acoustics. Structural engineering covers analysis and design, behavior of structural systems, earthquake engineering, engineering science and mechanics, high-performance materials, and computer-aided engineering. Construction engineering and management is a specialty area dealing with a wide range of management skills based on construction engineering. Architectural engineers are leaders in the engineering design and analysis, construction, and operation of engineered systems for commercial, industrial, and institutional buildings and other facilities.

Architectural Engineering at Kyung Hee
Architectural Engineering at Kyung Hee University is an ABEEK-accredited program. The goal of the architectural engineering program at the Kyung Hee University is to educate the potential engineers to be global leaders. Through our well-organized education program, the students will have 1) a sound background in the fundamentals of architectural engineering such as environmental, structural, and construction engineering and management specialties; 2) problem solving capabilities to satisfy the professional requirements in the real world; and 3) motivation to extend their professional knowledge by entering graduate and professional degree programs as well as other related professional careers. Three major areas offered at Kyung Hee University are: Environmental engineering studying electrical, communications and control, lighting, heating, ventilating, air conditioning, fire protection, plumbing, and acoustics; Structural engineering studying analysis and design of building systems, behavior of structural systems, earthquake engineering, engineering science and mechanics, high-performance materials, and computer-aided engineering; Construction engineering and management studying various construction technologies and methods as well as management skills. Management issues cover both project management topics such as time, cost, quality as well as safety, and general management topics such as financial accounting, economics, and legal aspects.
Degree Requirements
In order to receive the Bachelor of Engineering in Architectural Engineering, students must:
 unlawful characters removed

Courses
Year 1
Introduction to Construction Engineering, Introduction to Engineering Computer Programming, Fundamental Physics, Fundamental Engineering Design

Year 2

Year 3

Year 4

Careers and Graduate Destinations
Graduates will have various opportunities to be hired by construction companies, architectural firms, and government agencies. We also strongly recommend that students commit themselves to a graduate program related to one of the major fields in architectural engineering.

Faculty
Jeong-Tai Kim, Ph.D. Yonsei University, 1985, Professor, Environment, jtkim@khu.ac.kr
Choong-Hee Han, Ph.D. Georgia Institute of Technology, 1990, Professor, Artificial Intelligence, chhan@khu.ac.kr
Hee-Cheul Kim, Ph.D. New Mexico State University, 1991, Professor, Structural Engineering, kimhc@khu.ac.kr
Sun-Kuk Kim, Ph.D. Seoul National University, 1992, Professor, Architectural Engineering, kimsuk@khu.ac.kr
Won-Kee Hong, Ph.D. University of California at Los Angeles, 1989, Associate Professor, Earthquake Analysis, hongwk@khu.ac.kr
Jun-Bok Lee, Ph.D. North Carolina State University, 1999, Associate Professor, Construction Engineering and Management, leejb@khu.ac.kr
Young-Hak Lee, Ph.D. Pennsylvania State University, 2004, Assistant Professor, Structural Engineering, leeyh@khu.ac.kr
Geun-Young Yun, Ph.D. University of Cambridge, 2008, Full-time Lecturer, Environmental Science and Technology in Architecture, gyyun@khu.ac.kr
Dae-Jin Kim, Ph.D. University of Illinois at Urbana-Champaign, 2009, Full-time Lecturer, Civil Engineering, djkim@khu.ac.kr
What is Environmental Science and Engineering?
Environmental Science & Engineering is an area of highly applied science to solve the environmental problems such as destruction of eco-system, water contamination, air pollution, soil contamination and municipal waste treatment. The department curriculum offers environmental management, eco-business, environmental education and toxicology in addition to the general environmental areas. In particular, process designs are the essential courses in the systematic curriculum in order to be the environmental engineers needed in practical industry and problem sites. Students who complete the assigned courses can undertake graduate studies for a higher degree or achieve the relevant certificates in a few specific areas. They can play important roles in colleges, R & D centers, industry and government. In addition, they may become teachers by taking an educational course. The department makes an effort to train students eligible for global competition and leadership.

Environmental Science and Engineering at Kyung Hee
The Department of Environmental Science and Engineering was established in 2009 by binding two departments: department of environmental science and department of environmental engineering. Our department is one of the oldest programs of environmental science education and research in Korea. Founded in 1979 as a program of education and research in nature conservation, the department has steadily expanded to manage the quality of water, soil, air, and ecosystems, as well as social, political, and legal aspects of environmental processes. The department is focusing on training the students to be adaptable for theoretical and practical field sites. In particular, the ABEEK program consists of the systematic courses including general academics, MSCs, basic engineering and core environmental courses. It also requires the students to undertake several engineering design subjects compulsorily. We also offer the professional teaching course which can provide with a national certificate. The students with the certificate may become teachers at middle and high schools, or have a job in national or local governments. Many students who have undertaken this teachers program are working at schools and teaching areas as environment or science teachers.

Degree Requirements
To receive the degree of B. Sc. in Environmental Science, a student must:
* complete a minimum of 136 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete the 12 units of Core Courses for Environmental Science.
* complete at least more than 37 units of Elective Courses for Environmental Science.
To receive the degree of B. Eng. in Environmental Engineering, a student must:
* complete a minimum of 136 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 18 units of Core Courses for Environmental Engineering.
* complete 42 units of Elective Courses for Environmental Engineering.
* take 18 design courses too.
Courses

Year 1
Calculus 1, Calculus 2, General Physics, Chemistry and Lab I, Chemistry and Lab II, Biology and Lab I, Biology and Lab II

Year 2

Year 3

Year 4

Careers and Graduate Destinations
Our students have an array of employment choices after graduation. Many of our students become researchers and professors in national and private institutions after getting higher degrees such as a Master’s or Ph.D. degree. Acquisition of national Environmental Manager licenses is a big asset in starting a career in management of pollution control facilities or in evaluation of environmental effects of pollutants. Other choices are also waiting for well trained students in public service in the environmental field, environmental consulting, or as teachers in middle and high schools after finishing the teachers program.

Faculty
Dong-Sool Kim, Ph.D. University of Illinois at Urbana Champaign, 1987, Professor, Air Pollution Control, atmos@khu.ac.kr
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Kwang-Hyen Chang, Ph.D. Shinshu University, 2003, Assistant Professor, Environmental System, chang38@khu.ac.kr
What is Architecture?
Architecture is the field that directly relates to human daily life and deals with various studies regarding the built environment. Architecture is called a vessel which contains human life. With the understanding of humans and human behavior, architecture creates a built environment. Architecture is also an integrating process with arts and technology. This major educates students to have the ability to design the human environment with the understanding of construction related technologies such as structural engineering, construction management, environmental control, and information technology. This major is an extraordinarily exciting field where excellence is rewarded and creative skills are honed to prepare for a full life of professional activity. To fulfill the above aims, the students cultivate the capability for creating robust and aesthetical buildings by learning various disciplines such as design, related design theories, history, architectural technology and computer/information technology. The major has a primary goal to develop competent architectural experts with the knowledge of culture and art to accommodate the future demand.

Architecture at Kyung Hee
To educate architectural students for a successful future career to deal with planning, designing and constructing buildings, the architecture major offers a well-balanced educational environment with excellent facilities, laboratories and state-of-the-art equipment. We have a distinguished program compared to other schools. We have various courses which are established according to the international criteria to educate students as a professional architectural designer. In addition, we run flexible programs, not only to educate future architects, but also to educate various architectural experts such as architectural information technology experts.

At the undergraduate level, the Department of Architecture offers a five-year professional program leading to a Bachelor of Architecture degree. It focuses on educating the students to have the capability for creating innovative and aesthetical buildings by learning various disciplines such as design, theories, history, and technologies such as structural engineering, construction management, environmental control and architectural information technology. Students will develop skills in design through an intensive sequence of design studios at each level while taking additional courses for the rest of the education.

We are proud of the very high rate of employment among our alumni. Most graduates are employed in design and construction companies and various architecture related companies. Because of our dedication to excellence, our graduates have the capacity to learn and adapt to the changing demands of a dynamic profession. We invite you to learn more about the study of architecture at Kyung Hee University.

Degree Requirements
To receive Bachelor of Architecture degree, a student must complete a minimum of 165 units in the following course of study:

- 96 units of required courses offered by the Department of Architecture.
- 12 units of elective courses offered by the Department of Architecture.
- 18 units of required courses offered by the College of Engineering.
- A minimum of English proficiency test score of TOEIC 700.
Courses
Year 1
Introduction to Design Studies in Architecture 1/2, Introduction to Architecture, Building Structural System, Basic Computer Programming for Construction, Techniques of Expression 1/2

Year 2

Year 3

Year 4
Architectural Design 5/6, History of Korean Architecture 1/2, Environmentally Friendly Architecture, Building Materials & Methods, Building System, Information Technology in Architecture, Topics in Housing, Special Topics in Architecture, Topics in Contemporary Architecture

Year 5

Careers and Graduate Destinations
Our students have diverse opportunities after graduation. They can choose jobs in the architectural design area including architectural design firms, the real estate developing industry, and the construction industry. They can also play an important role in research institutes as well as in government. We also strongly recommend students to enter a graduate program to gain mature insight and in-depth knowledge. The graduate school of architecture at Kyung Hee University provides educational programs which fulfill the requirements for the accreditation of architectural education.

Faculty
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In-Han Kim, Ph.D. University of Strathclyde, 1994, Professor, Architectural Design Theory & Information Technology, ihkim@khu.ac.kr
Kwan-Seok Lee, Ph.D. Paris 1-Pantheon Sorbonne, 1997, Professor, Architectural Design and Theory, archlee@khu.ac.kr
Dae-Hee Cho, Ph.D. Seoul National University, 1995, Professor, Architectural Design and Theory, dbjoe@khu.ac.kr
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College of Electronics and Information

Department

Electronics and Radio Engineering
Computer Engineering
Biomedical Engineering
What is Electronics and Radio Engineering?
Since 1966, the electronics and radio engineering department has contributed to the progress of electronics and radio technologies and their industrial applications by educating expert engineers. This major is focused on both basic theoretical study and applications in the fields of nano semiconductors, optics, MMIC, RFIC and SoC designs, computers and circuits designs, microwaves, communication system designs, wireless communications, multimedia such and image and video. Electronics and radio engineering is a core technology for realizing the information society of the future, and the department specializes in implementing both hardware and system software, which are crucial components for designing electronics and communication systems.

Electronics and Radio Engineering at Kyung Hee
Electronics and radio engineering is a core major in a highly developed industrial and information society. The department focuses on educating professional engineers who can lead technological progress in the field of nano semiconductors, optics, computer systems and circuit design, SoC design, microwave, communication system design, wireless communications and multimedia. We provide a base to enhance student capabilities by paralleling theoretical and experimental studies in the curriculum. Up to date experimental equipment is provided to help students with creative inquiry. Those who have graduated from this major have participated in research and development at leading companies and institutes. The importance of this major has been increasing in Korea, and to meet the rising need, various joint research projects with industrial partners are being carried out under faculty supervision. This research activity is closely related to graduate study and we recommend further studies at the graduate level. Also, our department provides electronics and radio engineering ABEEK (accreditation board for engineering education of Korea) program. ABEEK is the organization responsible for monitoring, evaluating, and certifying the quality of engineering, engineering technology, and engineering-related education in Korea.

Degree Requirements
To receive the Bachelor of Science in Electronic Engineering, a student must:
- complete a minimum of 136 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 29 units of Required Courses.
- complete 28 units of Technical Electives for electronic engineering.
- complete 48 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
- acquire a minimum English proficiency test score of TOEIC 700.

Courses
Year 1
Physics I, Physics II, Experiment for Physics I, Experiment for Physics II, Calculus I, Calculus II, Linear Algebra,
Differential Equation, Object Oriented Programming

Year 2

Year 3

Year 4

Careers and Graduate Destinations
The electronics and radio engineering major is aimed at educating engineers who can develop highly sophisticated electronics and radio devices and systems such as digital electronics, communication equipment, and real-time information processing systems. By contrast with other related majors, we specialize in designing both hardware components and system software for multimedia terminal systems incorporating information processing, communication and control, and signal processing. To enhance the nation’s competitive power, the following systematic educational curriculum has been established. Major fields are divided into six specific areas:
• optics and nano semiconductors
• computer and circuit design (SoC)
• microwave
• communication system design
• wireless communications
• multimedia

Virtually all of our graduates are employed by such companies as Samsung, LG, Hynix, Hyundai, KT, SKT, KBS, MBC, SBS, other industrial organizations. Graduates with M.S. and Ph.D. degrees participate in a variety of research and development projects in their roles as university professors, researchers, and engineers at universities, companies, and research institutes.

Faculty
Kye-Suk Jun, Ph.D. Yonsei University, 1983, Professor, Electromagnetic and Wireless Communications, gsjun@khu.ac.kr
Won-Kyung Cho, Ph.D. Hanyang University, 1986, Professor, SoC Design, chowk@khu.ac.kr
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Woon-Sik Baek, Ph.D. Polytechnic Institute of New York, 1991, Professor, Optical Signal Processing, wsbaek@khu.ac.kr
Yun-Mo Chung, Ph.D. Michigan State University, 1991, Professor, Digital System Design, chung@khu.ac.kr
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What is 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 a most important field 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: basic and applied. Basic computer engineering is further divided into a hardware branch...
and a software branch. The software branch includes programming, operating systems, compilers, databases, algorithms, and software engineering. The hardware branch includes computer architecture, computer design, and manufacturing. The area of applied computer engineering is also composed of two branches: 1) a numerical area which includes numerical analysis, optimization theory, and simulation; 2) a non-numerical area which includes artificial intelligence, computer vision, database management systems, computer networks, multimedia systems, robotics, and computer graphics.

**Computer Engineering at Kyung Hee**

Kyung Hee University has a strong tradition of research and teaching in technology-based subjects. Computing is a leading example. Our courses represent the full spectrum of computing Computer Engineering, from the design and development of software, hardware, networks and specialized systems to the use of PCs and other computer equipment in different fields. The computer engineering major pursues three educational goals: 1) training students to become research scientists who will do R&D work on computer H/W and S/W; 2) training students as engineers who will design and develop computer systems; 3) training students as technical managers who will manage businesses and pursue professional careers in computer related areas. In order to accomplish these goals: 1) We provide courses for students to obtain fundamental knowledge about computing technology and help them improve their creative ability in areas of newly deployed information technology such as multimedia and the internet. 2) We provide several practical educational programs for students to directly apply their knowledge to real world problems. 3) We provide the opportunity to extend computer applications through interdisciplinary educational programs like computer design and art. 4) We also try to create computer specialists who can use their ability to play a meaningful role in society.

**Degree Requirements**

To receive the Bachelor of Science in Computer Engineering, a student must:

- complete a minimum of 136 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 33 units of Required Courses (ABEEK).
- complete 15 units of Required Courses (non-ABEEK).
- complete 27 units of Technical Electives for computer engineering (ABEEK).
- complete 39 units of Technical Electives for computer engineering (non-ABEEK).
- complete 60 units stated in the common studies program and Humanities/Social Science Electives (ABEEK).
- complete 48 units stated in the common studies program and Humanities/Social Science Electives (non-ABEEK).
- acquire a minimum English proficiency test score of TOEIC 700.

**Courses**

**Year 1**

Introduction to Programming, Calculus I, Calculus II, Linear Algebra, Differential Equation, Object Oriented Programming

**Year 2**


**Year 3**


**Year 4**


**Careers and Graduate Destinations**

Our students have an array of employment choices after graduation. They can choose development or research in several computer-related areas, including telecommunications, multimedia, Internet, or electronic commerce. They can also play
an important role in non-computer organizations, including government and the banking industry. With the high manpower needs in information technology, our students will have increasing opportunities to exploit their skills and contribute to the development of an industry which can improve the involved society's competitive ability. We also strongly recommend students to enter a graduate program related to computer engineering.

Faculty

Young-Jae Song, Ph.D. Myongji University, 1979, Professor, Software Engineering, yjsong@khu.ac.kr
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Sung-Won Lee, Ph.D. Kyung Hee University, 2008, Assistant Professor, Cellular Communications and Networks, drsungwon@khu.ac.kr
Brian J. d’Auriol, Ph.D. University of New Brunswick, 1995, Assistant Professor, Ubiquitous Computing, dauriol@oslab.khu.ac.kr

What is Biomedical Engineering?

Students learn basic principles and acquire hands-on experience involved in application of engineering to medicine. The major topics include medical instrumentation (including diagnostic and therapeutic devices), biological signal processing, medical imaging systems, computer applications in medicine, medical informatics, telemedicine, prosthetics and orthoses, bio-sensors, bio-materials, and meridian and acupuncture science. Applicants are expected to have strong motivation toward engineering application for enhancing the quality of human life.

Biomedical Engineering at Kyung Hee

The department took its first step in 1998 with the name of the Department of Oriental Medical System Engineering, and was renamed as the Department of Biomedical Engineering in 2001. The department has been with the College of Electronics and Information since 1999. The department offers inter-disciplinary curricula (engineering and basic medicine) in collaboration with the College of Oriental Medicine, the Medical School, and other engineering schools. The educational philosophy of the department is to train competent engineers who will take active roles in the field of
biomedical engineering for Western Medicine and Eastern Medicine as well.

Degree Requirements
To receive the Bachelor of Science degree in Biomedical Engineering, students should:
- complete a minimum of 130 units.
- satisfy the general requirements of the university for the B.S. degree.
- complete 12 units of required courses.
- complete 49 units of elective courses for biomedical engineering.
- complete 35 units stated in the Humanitas elective courses.
- acquire a minimum TOEIC score of 700 to show his/her English proficiency.

Courses

Year 1
Calculus I, Calculus II, Physics and Experiment I & II, General Chemistry, General Biology, English I & II

Year 2
Engineering Mathematics, Elementary Programming, Human Physiology for Biomedical Engineers, Electromagnetic Fields and Waves, Biochemistry, Basic Biomedical Experiments, Neuro Physiology for Biomedical Engineers, Basic Electronic Circuits, Probability and Random Variables, Medical Information Programming and Practice, Molecular Cellular Biology

Year 3
Knowledge System of Oriental Medicine, Applied Electronic Circuits, Applied Electronics Laboratory, Biomedical Instrumentation Laboratory, Computer Architecture, Biomedical Instrumentation I, Acupuncture and Moxibustion, Signals and Systems, Biomechatronics, Biosignal Processing and Practice, Biomedical System Design and Experiment

Year 4
Creative Design, Biomedical System Modeling, Biomedical Engineering and Management, Medical Imaging System, Special Topics I in Biomedical Engineering, Special Topics II in Biomedical Engineering, Neural Engineering, Nano-Bio Engineering, Biomaterial

Careers and Graduate Destinations
Throughout the world, the medical and healthcare industry is undoubtedly one of the fastest growing areas in the 21st century, and thus demands motivated engineers in related areas. Particularly, various interdisciplinary research and development in the area require students to have broad knowledge in both engineering and medicine. Consequently, the job market is wide open for well-motivated biomedical engineers. Graduates are also encouraged to pursue an advanced degree in graduate schools. The department offers both the Master’s program and the doctoral program to those who are deeply interested in research and development in the area.

Faculty
Gon Khang, Ph.D. Stanford University, 1988, Professor, Mechanical Engineering, gkhang@khu.ac.kr
Senug-Hun Park, Ph.D. University of Florida, 1990, Professor, Electrical Engineering, parksh@khu.ac.kr
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Seung-Moo Han, Ph.D. State University of New York at Buffalo, 1996, Professor, Mechanical Engineering, smhan@khu.ac.kr
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Yi Wang, Ph.D. University of Wisconsin-Madison, 1997, Professor, Medical Physics, yiwang@med.cornell.edu
College of Applied Science

Department
Applied Mathematics
Applied Physics
Applied Chemistry
Astronomy and Space Science
What is Applied Mathematics?
Mathematics is the science of order. Mathematicians seek to identify instances of order and to formulate and understand concepts that enable us to perceive order in complicated situations.

Concentration in mathematics is designed to acquaint the student with the most important general concepts underlying the three branches of modern mathematics. Concentration in mathematics will provide an adequate basis for further study in either pure or applied mathematics. Because so many disciplines now rely on the mathematical sciences, a concentration in mathematics provides a valuable background for many different careers.

Applied Mathematics at Kyung Hee
Mathematics plays an important role in modern society and has numerous applications. It has been an indispensable tool in science and engineering and is being used in sophisticated ways in the social sciences, humanities and business. With expanding applications, many areas of mathematics, both pure and applied, have grown tremendously. Accordingly, the department offers a variety of courses, theoretical and practical, for applied mathematics majors and double majors. Talented students are able to serve after graduation as middle and high school teachers, information processing engineers, government officials and so on. In addition, students can enter graduate school to continue their academic careers by completing a Master’s or doctoral degree. This major, which includes both fundamental and applied mathematics, is broadly classified into 4 pursuits:
• to cultivate competent people who have the ability to take on a leading roles in an advanced society
• to produce manpower to guide industrial technology and to make in depth study of mathematics and contiguity technology in the academic world or area of research
• to cultivate experts in science education
• to provide the basic knowledge and a scientific way of thinking about mathematics necessary for study in science and engineering as well as other areas

Degree Requirements
To receive the Bachelor of Science in Applied Mathematics, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 12 units of Required Courses.
• complete 36 units of Technical Electives for applied mathematics.
• complete 51 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.

Courses
Year 1
Physics and Experiment I, Physics and Experiment II, Calculus I, Calculus II, Linear Algebra, Differential Equation, Object Oriented Programming
Year 2
Analysis I, Analysis II, Numerical Analysis with Lab, Vector Analysis, Linear Programming, Introduction to Geometry,
Calculus III, Probability and Statistics and Its Applications, Set Theory and Fuzzy Sets

Year 3

Year 4
Special Lectures on Abstract Algebra, Differential Geometry II, Real Analysis, Mathematics Education, Functional of Several Variables, Modern Geometry, Fourier Analysis Based on Numerical Analysis

Careers and Graduate Destinations
For those who have applied mathematics as their sole major, a program toward obtaining middle and high school teaching certification is available. Furthermore, jobs in such areas as information processing and insurance management are also available to students majoring in mathematics. Currently, about ten percent of B.S graduates enter graduate programs related to mathematics, about thirty percent are teachers in middle or high school, and many others work in the information technology sector.

Faculty
Jin-Yong Kim, Ph.D. Korea University, 1987, Professor, Algebras, jykim@khu.ac.kr
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Chang-Yong Han, Ph.D. Seoul National University, 2002, Assistant Professor, Applied Mathematics, cyhan@khu.ac.kr
Do-Yoon Kim, Ph.D. University of Minnesota, 2005, Assistant Professor, Partial Differential Equations and Probability, doyoonkim@khu.ac.kr
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What is Physics?
The purpose of physics is to explore the laws of Nature, to understand diverse natural phenomena on the basis of the laws, and to explain and predict new phenomena. Modern physics including the theory of relativity and quantum mechanics enlarges human knowledge about nature and is leading modern science and technology in diverse fields such as semiconductor electronics, nanotechnologies, new material development, energy-related technology, cosmology, complex systems, and biology

Physics and Applied Physics at Kyung Hee
The Physics Department was founded in the College of Science and Engineering at the Suwon campus in 1980. In 1999, it became the Physics and Applied Physics major in the School of Electronics and Information, and it returned to the independent department, Department of Applied Physics again in 2009. Promising technologies such as nanostructures,
memory and non-memory semi-conductors, applied optics, and nonlinear complex systems have been chosen as areas of specialization, and practical education facilities have been established to provide training programs at the undergraduate level. In the field of nanostructures and semiconductors, we undertake research into the processing, modification and characterization of electronic and optoelectronic materials, and into the design, fabrication, and testing of novel electronic and optoelectronic devices. Applied optics, an increasingly important field for all optical telecommunication networks, is also one of our specialized research areas. Currently, we have nine faculty members that are performing joint theoretical/experimental collaboration in the fields of nanostructures, semiconductors, new energy-related materials, and optical devices. The Semiconductor Physics Research group was selected for Brain Korea 21 Grant of 7-year graduate school research supported by the Ministry of Education.

Degree Requirements
To receive the Bachelor of Science in Physics and Applied Physics, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 13 units of Required Courses.
• complete 38 units of Technical Electives for Physics and Applied Physics.
• complete 48 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
• acquire a minimum English proficiency test score of TOEIC 650.

Courses
Year 1
General Physics and Laboratory I, II, Calculus I, II, Linear Algebra, Differential Equation, Introduction to Programming
Year 2
Year 3
Year 4
Optical Fiber Communications, Advanced Thermal and Statistical Physics, Introduction to Solid State Physics, Nuclear and Particle Physics, Display Devices, Nano Devices and Processing, Condensed Matter Physics Laboratory, Special Topics in Physics, Laboratory for Physical Properties of Semiconductor and Application

Careers and Graduate Destinations
Our students can take jobs in most semiconductor electronics and optics companies or become physics teachers. We strongly recommend students to enter a physics graduate program to have special knowledge and capability as advanced researchers. With a graduate degree, students can be welcomed by leading electronics companies or research laboratories.

Faculty
Suk-Joon Lee, Ph.D. Yale University, 1986, Professor, Nuclear Physics, ssjlee@khu.ac.kr
Hae-Yang Chung, Ph.D. University of California, San Diego, 1990, Professor, Applied Optics, chunghy@khu.ac.kr
Gyu-Seung Shin, Ph.D. KAIST, 1985, Professor, Statistical Physics, shings@khu.ac.kr
Suk-Ho Choi, Ph.D. KAIST, 1987, Professor, Semiconductor Physics, sukho@khu.ac.kr
Jeong-Woo Choe, Ph.D. University of Pittsburgh, 1990, Professor, Semiconductor Physics, jwchoe@khu.ac.kr
Ho-Sun Lee, Ph.D. University of Illinois at Urbana-Champaign, 1993, Professor, Semiconductor Physics, hlee@khu.ac.kr
Dae-Young Lim, Ph.D. University of Texas at Austin, 2001, Associate Professor, Semiconductor Physics, dlim@khu.ac.kr
Min-Chul Lee, Ph.D. Seoul National University, 2003, Assistant Professor, Condensed Matter Theory, minchul.lee@khu.ac.kr
What is Applied Chemistry?
Chemistry is the study of matter and its change. This includes their composition, the properties they exhibit, and the changes they undergo when they react with other substances. Applied Chemistry is the systematic study of virtually everything that occupies space and possesses mass. The whole earth is made of chemicals, as are all the other planets and the stars. All living things on earth are made of chemicals, and chemical reactions sustain every single life you interact, every thought that you think, every opinion you form. All materials and machines we construct are made out of the chemicals available on earth, often transformed by chemical reactions into advanced materials that meet our specific needs. So the study of applied chemistry is the study of the sun and stars, the earth, the sea, all life, and all of machines. To fully understand these things, you need to understand some chemistry, interdisciplinary study of biology, physics, geology, chemical engineering, medicine, and materials sciences.

Applied Chemistry at Kyung Hee
The Applied Chemistry program focuses on the education and research in the field of chemistry and its applications. Our mission is to provide a coalescing and learning experience for graduate students and post-doctoral fellows in diverse research groups dealing with analytical, biological, inorganic, organic, physical, and polymer chemistries. In addition, we provide a set of tools to increase the level of complexity and the research that we can bring to bear on emerging problems in nanotechnology, biotechnology, environmental technology, and information technology. With such efforts, our program maintains excellence in education and research in the field of applied chemistry. These areas include medicinal, natural product, computational, organometallic, and physical organic chemistries, chemical physics including experimental and theoretical dynamics, materials sciences for organic-inorganic hybrid materials, organic and inorganic display materials, and synthesis and reaction in the supercritical fluids. Currently, 13 faculty members participate in the undergraduate and graduate programs and direct various research.

Degree Requirements
- At least 130 course units of undergraduate level credit including 49 units of intensive Applied Chemistry courses are required for the BS degree.
- Students must fulfill presentation, defense, and document requirements for the Chemistry thesis committee.
- A thesis advisor can be any faculty member from the Applied Chemistry department.

Courses
**Year 2**
- Physical Chemistry
- Physical Chemistry I
- Physical Chemistry II
- Physical Chemistry Laboratory
- Organic Chemistry
- Organic Chemistry I
- Organic Chemistry Laboratory
- Inorganic Chemistry
- Analytical Chemistry I
- Analytical Chemistry II
- Analytical Chemistry Laboratory
Year 3

Year 4

Careers and Graduate Destinations
Our students have a variety of employment choices. They can perform research and development in national or corporate laboratories and industries, for instance, in the field of classical chemistry as well as diverse chemistry-related areas such as nano-technology (NT), bio-technology (BT), information technology (IT), and environmental technology (ET). Our excellent graduate program is also open to all students who want in-depth understanding of chemistry and materials sciences.

Faculty
Beom-Suk Choi, Ph.D. University of Missouri at Columbia, 1982, Professor, Analytical Chemistry, bschoi@khu.ac.kr
Young-Sook Paik, Ph.D. Texas Tech University, 1984, Professor, Organic and Natural Products Chemistry, paikys@khu.ac.kr
Sung-Yul Lee, Ph.D. University of Chicago, 1988, Professor, Physical Chemistry, sylee@khu.ac.kr
Seung-Han Lee, Ph.D. Princeton University, 1987, Professor, Organic and Organometallic Chemistry, shlee@khu.ac.kr
Kwang-Hyun Ahn, Ph.D. Princeton University, 1988, Professor, Organic Chemistry, khahn@khu.ac.kr
Young-Ho Kim, Ph.D. University of Minnesota, 1991, Professor, Physical and Computational Chemistry, yhkim@khu.ac.kr
Song-Ho Byeon, Ph.D. University of Bordeaux 1, 1991, Professor, Inorganic and Solid State Chemistry, sbhyun@khu.ac.kr
Hak-Won Kim, Ph.D. Iowa State University, 1992, Professor, Organic Chemistry, hwkim@khu.ac.kr
Young-Sik Lee, Ph.D. Columbia University, 1992, Professor, Physical Chemistry, yongslee@khu.ac.kr
Seong-Ho Kang, Ph.D. Seoul National University, 1998, Associate Professor, Analytical Chemistry, shkang@khu.ac.kr
Sung-Ik Yang, Ph.D. Seoul National University, 1998, Associate Professor, Analytical Chemistry, siyang@khu.ac.kr
Eun-Joo Kang, Ph.D. Seoul National University, 2006, Full-time Lecturer, Organic Chemistry, ejkang24@khu.ac.kr
Sun-Min Ryu, Ph.D. Seoul National University, 2005, Full-time Lecturer, Physical Chemistry, sunryu@khu.ac.kr

What is Astronomy and Space Science?
In the 21st century, our knowledge in the universe will be further expanded by space observations, and diverse space
technologies will become an essential part of our daily life. Manufacture and operation of spacecrafts and payloads, analysis of data obtained by in situ measurements and remote observations and developing theories with analytic and computational tools are tasks of space science and astronomy. Astronomy as an academic discipline of understanding the universe is no more a heavenly, speculative science. On one hand, it touches the most fundamental philosophical questions, for example, how our world was created and how we have come to exist, and on the other hand, it provides the most practical information, for example, that related to safety of astronauts and spacecrafts. Application of space science is not limited to satellite communication and astronomical observations as in the past. The GPS is already embedded in our daily life, and the remote sensing can even provide information on the interior of the earth, to say nothing of its atmosphere and surface. Our department trains students to take part in all those endeavors into space and pioneer the final frontier of the mankind, the universe.

Astronomy and Space Science at Kyung Hee

The Department of Astronomy & Space Science was established in 1985. It is the only university department that provides balanced education in both astronomy and space science in Korea. It has been featured by the largest optical telescope operated by a university in the country. The research area of our department has encompassed astrodynamics, stellar and galactic astronomy, extragalaxies and cosmology, radio astronomy, infrared astronomy, planetary astrophysics, solar physics, magnetopheric physics and heliospheric physics. Now we are expanding into manufacture and operation of satellites and payloads, in situ space observations, and development of satellite watch systems. Although our history is not very long, our alumni are now playing key roles in space research in Korea. Owing to the ongoing expansion of our department, our graduates are also expected to lead space industries in Korea in the near future.

Degree Requirements

To receive the Bachelor of Science degree in Astronomy and Space Science, a student must:
- acquire a minimum of 130 credits.
- satisfy the general requirements set by the University for academic degrees.
- complete 12 units of compulsory courses in Astronomy and Space Science.
- complete 37 units of electives in Astronomy and Space Science and related fields.
- complete 48 units (maximum 56 units) among general culture courses and humanities/social science electives, and.
- attain a designated minimum score in an English proficiency test equivalent to 650 points in TOEIC.

Courses

Year 1
Calculus 1 & 2, Physics 1 & 2, Linear Algebra, Astronomy & Space Science for Freshmen

Year 2

Year 3

Year 4

Careers and Graduate Destinations

Graduates from our Department are working as professors at universities, as researchers at national research institutes (Korea Astronomy and Space Science Institute, Korea Aerospace Research Institute, etc.) and as research and
administrative staffs in diverse industries (Korea Aerospace Industries, Korea Telecom, Korean Air, Samsung Data Systems, GEO Tech., IST Korea, etc.).

Faculty
Gwang-Son Choe, Ph.D., University of Alaska Fairbanks, 1995, Associate Professor, Solar and Heliospheric Physics, Plasma Physics, Numerical Simulation, gchoe@khu.ac.kr
Min-Hwan Jang, Ph.D., Georgia State University, 1995, Professor, Space Instrumentation, Galactic Astronomy, Variable Stars, Solar Physics, mjang@khu.ac.kr
Ho Jin, Ph.D. Kyung Hee University, 2004, Assistant Professor, Space Payloads, Astronomical Instrumentation, IR Astronomy, Variable Stars, benho@khu.ac.kr
Kap-Sung Kim, Ph.D. Kyoto University, 1988, Professor, Solar and Heliospheric Physics, Radiative Transfer, Celestial Mechanics, kskim@khu.ac.kr
Khan-Hyuk Kim, Ph.D. Nagoya University, 1999, Associate Professor, Magnetospheric Physics, Ionospheric Physics, Satellite Data Processing, khan@khu.ac.kr
Sang-Joon Kim, Ph.D. State University of New York, Stony Brook, 1982, Professor, Solar System Astronomy, Astronomical Spectroscopy, IR Observation, sjkim1@khu.ac.kr
Sung-Soo Kim, Ph.D. University of California, Los Angeles, 2000, Associate Professor, Stellar and Galactic Dynamics, Extragalaxies and Cosmology, sungsoo.kim@khu.ac.kr
Dong-Hun Lee, Ph.D. University of Minnesota, 1990, Professor, Space Physics, Plasma Physics Theory, Numerical Simulation, dhlee@khu.ac.kr
En-Sang Lee, Ph.D. KAIST, 2001, Assistant Professor, Space Physics, Plasma Physics, Numerical Simulation, Satellite Data Analysis, eslee@khu.ac.kr
Tetsuya Magara, Ph.D. Kyoto University, 1998, Associate Professor, Solar Physics, Magnetohydrodynamic Simulation, Plasma Astrophysics, magara@khu.ac.kr
Yong-Jae Moon, Ph.D. Seoul National University, 1999, Associate Professor, Solar Physics, Space Weather, Data Analysis, moonyj@khu.ac.kr
Soo-Jong Pak, Ph.D. University of Texas, Austin, 1997, Professor, Astronomical Instrumentation, IR Astronomy, Star Formation, Galaxy Evolution, soojong@khu.ac.kr
Jong-Ho Seon, Ph.D. University of Iowa, Iowa City, 1996, Associate Professor, Experimental Space Plasma Physics, Plasma Propulsion, Space Mission Management, jhseon@khu.ac.kr
Sami K. Solanki, Ph.D. ETH (Swiss Federal Institute of Technology) Zurich, 1987, Distinguished Professor, Solar and Heliospheric Physics, Stellar Astrophysics, Gravitation, Radiative Transfer, Atomic and Molecular Physics, Optical Instruments, solanki@mps.mpg.de
Peter H. Yoon, Ph.D. Massachusetts Institute of Technology, 1987, Professor, Plasma Kinetic Theory, Magnetospheric Physics, Solar and Heliospheric Physics, yoonp@umd.edu
College of Life Sciences

Department
Genetic Engineering
Food Science & Technology
Oriental Medicinal Materials & Processing
Plant and Environmental New Resources
Horticultural Biotechnology
What is the Genetic Engineering?
Genetic Engineering is a technology that takes advantage of the genetic information of life by using molecular biological tools. New recombinant therapeutic peptides and proteins, monoclonal antibodies, and vaccines have been successfully produced and are on the market using the genetic engineering techniques. Novel approaches such as gene therapy for disease treatment hold great promises in the future. In addition, the transgenic plants and animals offer the possibility of producing cheaper pharmaceuticals as well as providing resources for basic and applied researches.

Genetic Engineering at Kyung Hee
The goal of our Genetic Engineering Program is to provide highly motivated and creative students with the practical knowledge of genetic engineering as well as basic knowledge of life sciences. Genetic engineering techniques are essential in achieving the eventual goal of harnessing the biological system that is beneficial to human life. The genetic engineering program draws much attention from the incoming students because of the recent progress in this field such as the duplication of animals, gene therapies, and the human genome project. All the faculty members in our program have excellent careers both in education and research. Their research areas cover biochemistry, molecular and cell biology, biotechnology, microbiology, immunology, and plant molecular biology. In addition, our program is equipped with many cutting-edge biotechnological machines, which are accessible to the students. Our genetic engineering program has already achieved many successes and will continue to open new horizons in the fields like medicine, food, energy, and environmental protection. Based on the founding spirit of our university, “Promotion of Shared Humanity,” our genetic engineering program will educate the students to become professional and competitive in their major as well as good citizens in our global world.

Degree Requirements
To receive the Bachelor of Science in Genetic Engineering, a student must:
• complete a minimum of 130 credit units.
• satisfy the general requirements of the school for the professional degrees.
• complete 12 units of required courses.
• complete 37 units of technical electives for genetic engineering.
• complete 49 units (maximum 56 units) stated in the common studies program and humanities/social science elective.

Courses
Year 1
Bio-Resources, Applied Plant Science, Biology I, Biology II, Chemistry I, Chemistry II
Year 2
Microbiology I, Microbiology II, Microbiology Laboratory, Biochemistry I, Biochemistry Laboratory
Year 3
Biochemistry II, Genetics I, Genetics II, Genetics Laboratory, Cell Biology, Cell Culture Engineering, Molecular Biology I, Molecular Biology II, Molecular Biology Laboratory, Human Physiology, Biotechnology I, Biotechnology Laboratory, Genetic Engineering I
Year 4
Biotechnology II, Genetic Engineering II, Cell Biology II, Industrial Microbiology, Immunology, Virology, Instrumental Analysis in Biochemistry, Genetic Engineering Seminar, Plant Molecular Biology, Plant Molecular Physiology, Plant Molecular Cytology, Developmental Biology

Careers and Graduate Destinations
Our students have an array of employment choices after graduation. They can choose a development or research job in several biotechnology-related areas, such as national or private research institutes, or various industries, including pharmaceuticals, food, brewing, and cosmetics. Our students will have many opportunities to exploit their knowledge and skills to contribute to those industries and so, improve the health of our society. Many students also continue on to graduate schools to obtain M.S. or Ph.D. degrees to eventually become good scientists in the life science field.

Faculty
Tae-Ryong Hahn, Ph.D. Texas Tech University, 1983, Professor, Biochemistry & Molecular Biology, trhahn@khu.ac.kr
Ji-Young Kim, Ph.D. University of Chicago, 1981, Professor, Molecular Biology, jkim@khu.ac.kr
In-Sik Chung, Ph.D. Auburn University, 1986, Professor, Biotechnology, ischung@khu.ac.kr
Kwang-Hee Baek, Ph.D. University of Chicago, 1988, Professor, Molecular Biology, kbaek@khu.ac.kr
Jae-Seung Yoon, Ph.D. Purdue University, 1990, Professor, Neuroscience, jsyoon@khu.ac.kr
Dae-Kyun Chung, Ph.D. Cornell University, 1991, Professor, Industrial Microbiology, kchung@khu.ac.kr
Chang-Joong Kang, Ph.D. Texas A&M University, 1994, Associate Professor, Immunology, cjkang@khu.ac.kr
Seong-Hee Bhoo, Ph.D. University of Nebraska, 1998, Associate Professor, Plant Biochemistry, shbhoo@khu.ac.kr
Jong-Seong Jeon, Ph.D. Seoul National University, 1996, Associate Professor, Plant Functional Genomics, jjeon@khu.ac.kr
Young-Sook Son, Ph.D. UC San Francisco, 1989, Professor, Pharmacology & Cell Biology, ysson@khu.ac.kr
Yong-Soo Jeong, Ph.D. Seoul National University, 1999, Assistant Professor, Developmental Genetics, yongsu@khu.ac.kr
Jae-Sung Hwang, Ph.D. Ajou University, 2003, Assistant Professor, Skin Biology, jshwang@khu.ac.kr

College of Life Sciences

Department of Food Science & Technology
Tel: +82 31 201 2623 Fax: +82 31 204 8116 E-mail: foodsceince@khu.ac.kr URL: http://web.kyunghee.ac.kr/~food

What is Food Biotechnology?
Food Biotechnology integrates the application to food with several contributory sciences. It involves knowledge of the chemical composition of food materials; their physical, biological and biochemical behavior; human nutritional requirements and the nutritional factors in food materials; the nature and behavior of enzymes; the microbiology of foods; the interaction of food components with each other, with atmospheric oxygen, with additives and contaminants, and with packaging materials; pharmacology and toxicology of food materials, additives and contaminants; the effects of various
manufacturing operations, processes and storage conditions; and the use of statistics for designing experimental work and evaluating the results.

**Food Science and Technology at Kyung Hee**

The facilities of the Food Biotechnology major are located in College of Life Science Building 4 of the Global Campus (Yongin). With 7 faculty members, this major forms a nucleus that provides an educational, research, and informational center for food biotechnology. Currently, 200 students are enrolled in the undergraduate programs. The major objectives of our educational program are to integrate the basic scientific principles from different disciplines, apply them to food systems, and to focus the basic nature of food and problems involved in the development of various food products. The major of Food Biotechnology major also recognizes the diversity in the fields of food science and different career interests of students and offers seminars in food science and field trips to food industries regularly. In addition, an annual event held during the fall festival provides opportunities for undergraduate students to cooperate and to get to know each other by participating in seminars and manufacturing food and food products.

**Degree Requirements**

To obtain the Bachelor of Science in Food Biotechnology, a student must:

* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 12 units of Required Courses.
* complete 54 units of Technical Electives for Food Biotechnology.
* complete 66 units stated in the common studies program and Humanities/Social Science Electives.
* acquire a minimum English proficiency test score of TOEIC 640.

**Courses**

**Year 1**

Introduction to Programming, Calculus, Physics, Biology, Chemistry, Differential Equation, Object Oriented Programming

**Year 2**


**Year 3**


**Year 4**

Food Preservation, Food Quality Control and Lab, Functional Foods, Alcoholic Beverage Technology and Laboratory, Food & Biotechnology, Special Topics in Food Processing, Food Safety and Toxicology, Food Nutrition, Food Toxicology

**Careers and Graduate Destinations**

Students graduating from Food Biotechnology at the undergraduate or graduate levels are very much in demand and will find rewarding careers in the following areas of specialization: food microbiology, food chemistry, food processing, food biotechnology, consulting, quality control & inspection, basic and applied research product development, supervision and management, production and packaging, technical sales, and service teaching. We also strongly recommend students to enter graduate programs related to food biotechnology.

**Faculty**

Byung-Yong Kim, Ph.D. North Carolina State University at Raleigh, 1987, Professor, Food Engineering & Rheology, bykim@khu.ac.kr
What is Oriental Medicinal Materials & Processing?
Healthy life is one of the greatest concerns for human beings. And it is widely recognized that oriental medicine has an important role for human health. In particular, various oriental medicinal materials have been used for the prevention or remedy of diseases. The scientific interpretation of the pharmacological activity of the materials leads to the effective ways of using the drugs. The identification of the principal components of the medicinal materials manifesting the efficacy and adaptation of biotechnology make possible the development of new drugs. Finally, oriental medicinal materials and processing will show the best way to improve the health of human beings.

Oriental Medicinal Materials & Processing at Kyung Hee
It is widely recognized that oriental medicine is one of the most promising fields at Kyung Hee University and in Korea. The university endeavors to develop the field and draw attention of the world. However, the availability of oriental medicinal materials is one of the prerequisite problems to solve. A stable supply of quality materials, the scientific interpretation of biological activity and development of new drugs from medicinal materials should be fulfilled. Therefore, the major was established in 2002 to educate the specialists in not only the production, breeding and processing of oriental medicinal plants but also in the development of novel active materials with the goal of serving to improve the health of human beings. Students are trained to have knowledge of oriental medicine, high technology of bioengineering, and fine chemistry. Many courses are related to oriental medicinal knowledge and biotechnology for scientific studies and practical utilization, such as herbal principles, human physiology, plant genetics, plant physiology, plant tissue culture, plant biotechnology and natural products chemistry.

Degree Requirements
To receive the Bachelor of Science in Oriental Medicinal Materials & Processing, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
• complete 15 units of Required Courses.
• complete 50 units of Technical Electives for oriental medicinal materials & processing.
• complete 42 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
• acquire the minimum English and Computer proficiency of TOEIC 600.

Courses

Year 1

Year 2
Plant Genetics, Plant Physiology, Natural Products Chemistry, Medicinal Plant, Herbolody, Introduction to Oriental Medicine, Introduction to Oriental Medicinal Materials, Plant Pathology, Knowledge System of Oriental Medicine, Organic Chemistry, Molecular Biology, Biochemistry, Analytical Chemistry

Year 3

Year 4
Oriental Medicinal Prescriptionology, Oriental Medicinal Materials Processing, Biotechnology for Oriental Medicine and Practice, Natural Products Biochemistry, Processology & Storageology of Oriental Medicine

Careers and Graduate Destinations

Our students take part in education related to oriental medicinal materials and the processing and development of novel pharmacologically active resources. They can work as well in research institutes of the government, pharmaceutical companies, food manufacturing industry and oriental medical institutes. Some active students commence the manufacture of functional foods and development of new drugs using oriental medicinal materials. We also strongly recommend students to enter graduate programs related to oriental medicinal materials and processing.

Faculty

Yeong-Deok Rho, Ph.D. University of Wisconsin-Madison, 1981, Professor, Plant Physiology, ydrho@khu.ac.kr
Se-Young Kim, Ph.D. University of Hawaii, 1991, Associate Professor, Horticulture, sekim@khu.ac.kr
Nam-In Baek, Ph.D. Osaka University, 1989, Professor, Natural Products Chemistry, nibaek@khu.ac.kr
Deok-Choon Yang, Ph.D. Kyung Hee University, 1990, Professor, Plant Biotechnology, dcyang@khu.ac.kr
Tae-Hoo Yi, Ph.D. Kyung Hee University, 2005, Associate Professor, Oriental Medicine, drhoo@khu.ac.kr
Dong-Ho Kang, Ph.D. Kyung Hee University, 2006 Assistant Professor, East-West Medical Science, panjae@khu.ac.kr
What is Plant and Environmental New Resources?
The resources and energy needs of the developed world are currently over-dependent on the utilization of the finite fossil fuel. While renewable-power technologies, such as wind and photovoltaics, may have major roles in the future for the production of electricity, provision must still be made for the supply of industrial chemicals, modern synthetic products and motor fuels that are currently produced predominantly from fossil fuel. Plant and Environmental New Resources is a scientific discipline which use a systematic approach combining material science and biotechnology to develop functional bio-materials from environment-friendly and renewable plant biomass resources for promotion of shared humanity and common wealth. Efficient and wise management of plant biomass resources is also required for solving the problems of human-nature interaction.

Plant and Environmental New Resources at Kyung Hee
Emerging biorefinery technologies by using plant biomass offer a sustainable alternative through the utilization of carbohydrates, the most abundant organic chemicals on the surface of the earth. Our department established to seek solutions for current worldwide problems, especially limited resources and pollutions, through wise utilization of renewable and environment-friendly plant biomass. To this end, students are educated and trained with the most advanced curriculum. Not only academics, but also various group and department activities are equipped to make enjoyable and instructive student-life in university, such as membership training, field practices, and annual training program in overseas universities.

Degree Requirements
To receive the Bachelor of Science in Plant and Environmental New Resources, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 15 units of Required Courses.
• complete 49 units of Technical Electives for Plant and Environmental New Resources.
• complete 66 units stated in the common studies program and Humanities/Social Science Electives.
• acquire a minimum English proficiency test score of TOEIC 600.

Courses
Year 1
Statistics, General Physics, General Chemistry, General Biology, Differential and Integral Calculus, Applied Botany, Bio-Resources
Year 2
Economic Botany, Biomass Physiology, Environmental Soils, Biomass Quantitation, Climatology, Introduction to Natural Polymer Science, Biomass Chemistry, Engineering of Plant Resources, Biomass Formation, Practical Training 1
Year 3

Year 4

Careers and Graduate Destinations
Students graduating from Plant & Environmental New Resources at the undergraduate or graduate levels are very much in demand and will find rewarding careers in the following areas of specialization: specialist in environment impact assessment (soil, water, vegetation), GIS and remote sensing, weatherman, consultant. Also, they can acquire positions at subsidiary research organizations, such as Ministry of Agriculture (Rural Development Administration and Office of Forestry), Ministry of Environment and subsidiary part (Agricultural & Rural Infrastructure Corporation), and private companies. After the acquisition of a Master’s or doctor’s degree, advancement to a research organization or college is also possible.

Faculty
Young-Chai Kim, Ph.D. Kyung Hee University, 1982, Professor, Silviculture, yckim@khu.ac.kr
Jin-I Yun, Ph.D. Iowa State University, 1985, Professor, Agricultural Climatology, jiyun@khu.ac.kr
Hyun-O Jin, Ph.D. Tokyo University of Agriculture and Technology, Japan, 1988, Professor, Forest Soil Science, hojin@khu.ac.kr
Ung-Jin Kim, Ph.D. University of Tokyo, 2002, Assistant Professor, Biomaterial Sciences, sbpujkim@khu.ac.kr
Jae-Heung Ko, Ph.D. Yonsei University, 1997, Assistant Professor, Plant Functional Development, jhko@khu.ac.kr
Masahisa Wada, Ph.D. University of Tokyo, 1997, Professor, Biomaterial Sciences, awadam@mail.ecc.u-tokyo.ac.jp
Satoshi Kimura, Ph.D. Kyoto University, 1998, Professor, Biomaterial Sciences, akimuras@mail.ecc.u-tokyo.ac.jp

What is Horticultural Biotechnology?
The Horticultural Biotechnology major strives to examine new biological phenomena with forefront technologies such as genetic engineering and cell manipulation. Simultaneously, Horticultural Biotechnology strives to create forefront technology by systematically collecting and researching new information regarding the generation and usage of gardening products including cultivation technology, production, and rearing and usage of new varieties. To this end, the program focuses on engrafting basic scientific research with practical science that can be applied to practical fields such as the production and improvement of vegetables, fruits, and flowers to enrichment human lives.
Horticultural Biotechnology at Kyung Hee

Horticultural Biotechnology offers its students a variety of courses that will give both basic and applied knowledge of horticulture and biotechnology. To give students direct exposure to practice in horticulture, pomology, floriculture, plant breeding and plant biotechnology, the Department of Horticultural Biotechnology maintains various experimental facilities such as experimental plots, an orchard, greenhouse, and laboratories for tissue culture, plant physiology, plant breeding, and molecular genetics. Through hands-on work in such facilities, the students will acquire creative potential in horticulture and biotechnology. The department also strongly encourages juniors and seniors to participate in various research programs. Through such participation, students will be able to obtain the most current knowledge in the discipline necessary for a successful career. The Department of Horticulture was established in 1974, with 30 regular undergraduate freshmen on the Seoul campus. It moved to Suwon campus in 1983. The number of regular students has increased to 40 per year since 1984. The Graduate School has been operating the Master’s program in horticulture since 1974 and the Ph.D. program in horticulture since 1976. With the educational goals of Kyung Hee University and the scientific nature of Horticultural Biotechnology, the Department of Horticultural Biotechnology endeavors to educate each student to become a scholar who can contribute to the creation of a civilized world through acquiring profound knowledge and theories of Horticultural Biotechnology.

Degree Requirements

To receive the Bachelor of Science in Horticultural Biotechnology, a student must:
- complete a minimum of 130 credit units.
- satisfy the general requirements of the School for professional degrees.
- complete 12 units of Required Courses for Horticultural Biotechnology.
- complete 37 units of Technical Electives for Horticultural Biotechnology.

Courses

Year 1
Science of Bioresources, General Biology, General Chemistry, General Physics, Biology I, Biology II, Chemistry I, Chemistry II, Applied Botany, Introduction to Statistics, Calculus I

Year 2
Introduction of Horticultural Biotechnology, Horticultural Ornament and Design, Engineering of Horticultural Production, Tissue Culture and Laboratory, Plant Genetics, World Horticultural Tour, Plant Cytology, Native Growth Botany, Plant Physiology

Year 3
Pomology and Laboratory, Olericulture and Laboratory, Floriculture and Laboratory, Breeding of Horticultural Plants, Advanced Material of Plants, Plant Molecular Breeding, Herbs and Aromatherapy, Science of Ornamental Plants, Plant Hormones, Nutraceutical Vegetables

Year 4
Advanced Seed Processing Technology, New Techniques of Plant Transformation, Control of Flowering and Pigmentation, Fruit and Human Health, Horticultural Therapy, Experimental Design and Analytics, Applied Horticultural Biotechnology, Horticultural Management

Careers and Graduate Destinations

Upon graduating from the Department of Horticulture Biotechnology, students can apply for a seed engineer or a plant protection engineer certificate of qualification as well as agricultural technician tests. They can acquire positions at subsidiary research organizations of the Rural Development Administrations, the National Agricultural Cooperative Federation, seed companies, and agricultural chemicals companies. After the acquisition of a Master’s or doctor’s degree, advancement to a research organization or college is also possible.

Faculty

Seung-Woo Lee, Ph.D. Kyung Hee University, 1984, Professor, Floriculture, swolee@khu.ac.kr
Geun-Won Choi, Ph.D. University of Illinois, 1989, Professor, Plant Breeding and Genetics, cwon@khu.ac.kr
Young-Doo Park, Ph.D. North Dakota State University, 1993, Professor, Plant Molecular Biology, ydpark@khu.ac.kr
Youn-Hyung Lee, Ph.D. University of Houston, 1993, Associate Professor, Plant Biochemistry, younlee@khu.ac.kr
Seok-Hyun Eom, Ph.D. Cornell University, 2004, Instructor, Development of Horticultural Products, Sheom@hotmail.com
College of International Studies

Department
International Studies
What is International Studies?

International Studies is relatively a new field of studies which goes beyond the traditional division of academic fields. It is a truly inter-disciplinary major composed of International Relations, International Economics, Global Business, Global Area Studies, and Korean Studies. International Studies also is not a simple juxtaposition of these traditional fields of Social Sciences and Humanities. It combines them into a new academic subject, qualitatively different from its composing subfields. It also means that students of International Studies are guided to view the world from a very creative perspective.

This new field of studies is a response to a newly globalized world where we are now living in. Globalization requires college graduates equipped with new perspectives and creative knowledge. The School of International Studies is aiming at educating young collegiate students in order to meet with these new challenges in an era of globalization and producing competent young leaders of the world.

International Studies at Kyung Hee

Established in 2005, the School of International Studies at Kyung Hee University is a leader in this academic field in Korea and aims to become one of the premier schools of international studies in the world. The School is the successor of the School of International and Area Studies and the Department of International Relations which had existed from 1992 before they were transformed into the current school. By March 2010, the School will take another bold step in its development by transforming itself into the College of International Studies.

The School is, and its successor College will be, proud of its distinguished faculty members, the nation’s top 10 percent student body, many curricular and extra-curricular programs, and diverse financial aid and exchange student programs. The curriculum is made up of five modules: International Relations, International Economy, Global Business, Global Area Studies, and Korean Studies. All the classes are conducted in English. The School has been actively pursuing internationalization of its programs and operations through building global partnership networks, recruiting distinguished international faculty members, and excellent international students.

Degree Requirements

Students pursuing BA in International Studies must complete the following coursework in addition to the general studies program required by the University: Required Basic Courses: 12 credits; Required Major: 24 credits; Elective Major: 36 credits. The total number of credits for graduation is 120 credits. Students are allowed to take up to 33 credits per academic year not including summer credits.
## Courses

<table>
<thead>
<tr>
<th>Fields</th>
<th>Required Majors</th>
<th>Elective Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Basic Course</strong></td>
<td>Introduction to Political-Science</td>
<td>Contemporary Theories of Int’l Relations</td>
</tr>
<tr>
<td></td>
<td>Introduction to Economics I</td>
<td>History of International Relations</td>
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<td>Introduction to Economics II</td>
<td>Understanding Foreign Policy</td>
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<td>Introduction to Int’l Relations</td>
<td>Culture and International Relations</td>
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<td><strong>Major Course</strong></td>
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<td>East Asian International Relations</td>
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<td>Understanding International Law</td>
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<td>Introduction to Social Science Research</td>
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Careers and Graduate Destinations

B.A. holders in International Studies have a vast array of job opportunities. Many of graduates from the School of International Studies choose careers in the business sector including domestic and global enterprises. They also pursue their career in the public sector in governmental, semi-governmental, nongovernmental, and international organizations. Some of them also join the mass media, both domestic and international, after their graduation. They are also encouraged to continue their study at the graduate level both in foreign countries and Korean universities.

Faculty

Yun-Jeong Choi, Ph.D. Cornell University, 2003, Associate Professor, Economics, yun.choi@khu.ac.kr
Jin-Young Chung, Ph.D. University of Illinois at Urbana-Champaign, 1990, Professor, International Political Economy, jychung@khu.ac.kr
Manuel Dioquiono, Ph.D. Ateneo de Manila University, 2001, Assistant Professor, Social Philosophy, mdioquino@khu.ac.kr
Laura Jennifer Gerken, Med. SIT Graduate School-School for International Training Brattleboro, VT, 2006, Assistant Professor, ESOL, EFL, Multicultural Education, laurajenm@khu.ac.kr
Jong-Kyou Jeon, Ph.D. University of California Los Angeles, 1999, Associate Professor, Macroeconomics, jkjeon@khu.ac.kr
Ha-Lyong Jung, Ph.D. University of Iowa, 2003, Associate Professor, American Politics, hljung@khu.ac.kr
Oliver Kessler, Ph.D. Ludwig-Maximilians-Universität München (Germany), 2004, International Scholar, International Relations, oliver.kessler@uni-bielefeld.de
Jun-Yeup Kim, Ph.D. University College London, 2005, Assistant Professor, Development Planning Unit, junyeup@khu.ac.kr
Keun-Soo Kim, Ph.D. State University of New York at Buffalo, 2000, Associate Professor, Finance, keunskim@khu.ac.kr
Jae-Sung Kwak, Ph.D. University of Liverpool, 1996, Professor, International Relations of Latin America, kwakwak@khu.ac.kr
Man-Hak Kwon, Ph.D. The University of Texas at Austin, 1988, Professor, South-North Korean Relations, mhkwon@khu.ac.kr
Chang-Soo Lee, Ph.D. Australian National University, 1999, Associate Professor, International Trade, chslee@khu.ac.kr
Young-Jo Lee, Ph.D. Harvard University, 1990, Professor, Political Science, yjlee@khu.ac.kr
Don Moon, Ph.D. University of Chicago, 2003, Associate Professor, International Trade Law, donmoon@khu.ac.kr
Sharon L. Morrison, M.A. Harvard University, 1995, Assistant Professor, Divinity, morrison@khu.ac.kr
Hahn-Kyu Park, Ph.D. Columbia University, 1997, Professor, Foreign Policy-Making, hkpark@khu.ac.kr
Soo-Heon Park, Ph.D. Columbia University, 1993, Professor, Comparative Politics, shpark@khu.ac.kr
Oliver Richmond, Ph.D. University of Kent at Canterbury, 1997, International Scholar, International Relations, opr@standrews.ac.uk
Sang-Hyup Shin, Ph.D. London School of Economics and Political Science, 1995, Professor, International Political Economy, shshin@khu.ac.kr
Keuk-Je Sung, Ph.D. Northwestern University, 1986, Professor, Managerial Economics, kjsung@khu.ac.kr
Seong-Ji Woo, Ph.D. Indiana University, Bloomington 2001, Associate Professor, Inter-Korean Relations, jkjeon@khu.ac.kr
Chun-Hee Yang, Ph.D. Columbia University, 1994, Associate Professor, International Relations Theory, chyang@khu.ac.kr
Doo-Yong Yang, Ph.D. Columbia University, 1994, Associate Professor, Economics, yangdy@khu.ac.kr
Yu-Kyung Yeo, Ph.D. University of Maryland, College Park, 2007, Assistant Professor, Comparative Politics, y.yeo@cityu.edu.hk
Tae-Hwan Yoo, Ph.D. Purdue University, 2002, Assistant Professor, Economics, pine@khu.ac.kr
College of Foreign Languages and Literature

Department
French Language
Spanish Language
Russian Language
Chinese Language
Japanese Language
Korean Language

School of English Language and Culture
British and American Language and Literature
British and American Culture
What is French Language Program?
This department was formed for the purpose of studying French literature & linguistics. It offers a curriculum rich in instruction in both language and culture. The department efficiently and systematically imparts its students with a command of the language, and a good understanding of French history and society. To help students better absorb both language and culture, the department offers intensive courses in grammar, as well as a great variety of courses in French literature and linguistics. Through these courses, students acquire a broadened intellectual horizon and a good understanding of French culture.

French Language at Kyung Hee
In 1980, the Department of French Language and Literature was established as a part of the College of Foreign Languages. Ever since then, the graduates of the French Department have been a leading elite in Korea. When the students finish all the required courses in the department, they will surely be prepared to meet the demands of society. The Department of French Language and Literature currently offers the best qualified students the chance to study at Central University in Tunisia. These students will be given a scholarship to stay abroad one year, and have opportunity to become more fluent in the French language.

Degree Requirements
To receive the Bachelor of Arts in French, a student must:
• complete a minimum of 130 credit units.
• satisfy the General Requirements of the School for professional degrees.
• complete 9 units of Essential General Subjects in the areas of foreign language (6 credits of Foreign Language 1, 2) and computer (3 credits).
  ※ Only Foreign Language 1 can be exempted with the acquisition of a Certificate of Language Competency issued by publicly acknowledged institutions.
  ※ 3 credits for computer proficiency can be fulfilled by taking Language and Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign Languages and Literature (This course can be exempted with the acquisition of a certificate issued by publicly acknowledged computation institutions).
• complete 9 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the College Basic Courses and one from the courses of Each Country’s History and Culture).
• complete 45 credits of Major Courses for French (12 credits of Required Major Courses and 33 Selected Major Courses).

Courses
Year 1
French 1, 2, Elementary Conversation French 1, 2, Reading French Children’s Stories
Year 2
Comprehension of French Linguistics 1, Promenade of French Literature,
Intermediate Conversation French 1, 2, Comprehension of French Pronunciation, Essay of France, Society and Culture of Francophone, Delf French 1, Grammar of French, Poems and Chansons of France, Understanding French Society

Year 3
Advanced French Conversation 1, 2, Delf French, Comprehension of French Linguistics 2, Exercise of French Translation, Modern Ideology of France, Seminar of French Linguistics, Understanding of French Culture, French Novels

Year 4
French Feminism, Application French, Performance and Art of France, Practical Use of French, Seminar of French Literature, Image Art of France

Careers and Graduate Destinations
Our students (over 2000 alumni) have gone on to diverse careers in, for example, institutes, art-culture, trade companies, embassies, foreign companies, as well as remaining in the department as research students.

Faculty
Hyo-Suk Sun, Ph.D. Grenoble III, 1988, Professor, French Linguistics, hssun@khu.ac.kr
Gi-Gook Kim, Ph.D. Paris IV-Paris Sorbonne, 1996, Professor, Semiotics, gkim@khu.ac.kr
Gyung-Lae Lee, Ph.D. Paris III Sorbonne Nouvelle, 1992, Associate Professor, French Novel, lkbk@khu.ac.kr
Myung-Hee Hong, Ph.D. Bourgogne University, 1999, Associate Professor, French Culture, hjeijei@khu.ac.kr
Jae-Wook Lee, Ph.D. Montpellier III, 1994, Assistant Professor, French Literature, 80quatorze@hanmail.net
Jung-Suk Oh, Ph.D. Paris X, 2000, Assistant Professor, French Literature, ohjs@khu.ac.kr
Micottis Pierrick, M.A. Grenoble III, 1996, Assistant Professor, Science of Language, pmicottis@khu.ac.kr
Fert Marl?ne, M.A. Paris XIII, 2007, Full-time Lecturer, Teaching French, marlenefert@yahoo.fr
Sang-Gil Bae, B.A. Hankuk University of Foreign Studies, 1966, Adjunct Professor, sangkilbae@kornet.net

What is Spanish Language Program?
Recently the world has refocused attention particularly upon the importance of Hispanic culture in Central and South America, as well as upon the rich cultural ties between Latin America and Spain. And now about 4 billion people of the world are using this language, so many countries have accepted it as the first language or the second language. The growing significance and appreciation of the region has broadened the range of our academic and practical approaches to the Hispanic culture in the world. In this sense, the Department of Spanish Language and Literature seeks not only to enhance its students’ Spanish speaking ability, but also to deepen their understanding of the Hispanic culture.

Spanish Language at Kyung Hee
This Department was established in 1981. Kyung Hee University was the third university in all of Korea to offer a major in Spanish and Latin-American literature and linguistics. Ever since the beginning, we have been providing relevant knowledge and information about the linguistics and culture of Spain and Latin America. Cultural studies will focus on
the study of Spanish and Latin American culture, which will make our students well versed in the new cultural trends originating from Spain and Latin America and prevailing all over the world. This will enable our students to be specialists in the Spanish and Latin American culture. As for Linguistics, studies deal with history of Spanish, Spanish pronunciation, Spanish grammar, and Spanish syntax, which will enhance students’ awareness of structures of Spanish sentences and the right usage for each word of Spanish.

Degree Requirements
To receive the Bachelor of Arts in Spanish Language and Literature, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 9 units of Essential General Subjects of Kyung Hee University in the areas of foreign language (6 credits of Foreign Language 1, 2) and computer (3 credits).
  ※ Only Foreign Language 1 can be exempted with the acquisition of the Certificates of Language Competency issued by publicly acknowledged institutions as replacement for transcripts.
  ※ 3 credits for computer proficiency can be fulfilled by taking Language and Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign Languages and Literature (This course can be exempted with acquisition of a certificate issued by publicly acknowledged computation institutions).
- complete 6 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the College Basic Courses).
- complete 54 credits of Major Courses for Spanish (12 credits of Required Major Courses and 42 Selected Major Courses).

Courses
Year 1
- Spanish Grammar A1, A2, Spanish Conversation A1, A2, Spanish Composition A1, A2

Year 2
- Spanish Composition B1, Spanish Conversation B1-A, B1-B, Spanish Grammar B1, Spanish Reading 1, 2, Introduction to the Korean and Spanish Culture, Understanding Central and South America Culture

Year 3
- Spanish Translation and Interpretation 1, 2, Spanish Conversation Standard B2-A, B2-B, Introduction to Hispanic Linguistics 1, 2, Spanish Literature 1, 2, Latin American Literature 1, 2, Spain History and Culture 1, 2

Year 4
- Business Spanish, Latin America History and Literature 1, 2, Current Spanish

Careers and Graduate Destinations
Our students have a broad array of employment choices after graduation. They can choose development or research in several Spanish areas including diplomatic service, cultural promotion and education.

Faculty
- Han-Sang Kim, Ph.D. Complutense University, 1987, Professor, Spanish Linguistics, hnskim@khu.ac.kr
- Byung-Il Choi, Ph.D. Simon Bolivar University, 1993, Professor, Latin America Literature, bicho@khu.ac.kr
- Bo-Yung Kim, Ph.D. Barcelona University, 1996, Professor, Spanish Literature, boykim@khu.ac.kr
- Hyo-Sang Lim, Ph.D. Complutense University, 1984, Professor, Spanish Linguistics, hslim@khu.ac.kr
- Yong-Bok Song, Ph.D. Mexico National University, 1999, Associate Professor, Meso America Study, songyb@khu.ac.kr
- José María Areta, Ph.D. Seoul University, 2008, Associate Professor, Spanish Linguistics, joseareta@gmail.com
- Mi-Sun Kwon, Ph.D. Complutense University, 1993, Assistant Professor, Spanish Literature, mskwon@khu.ac.kr
- Chan-Kee Kim, Ph.D. Complutense University, 2004, Full-time Lecturer, Spanish Literature, chankeekim@hanmail.net
- Fernando Saucedo Lastra, Ph.D. Barcelona Pompeu Fabra University, 2004, Full-time Lecturer, Comparative Literature and Literary Theory, villon67@gmail.com
What is Russian Language Program?
Students in this program will study everything related to the Russian language and Russian culture. The Russian language program aims at acquisition of knowledge related to Russia. It has three major fields of studies: language, literature and cultural studies. Its first objective of education is to help students to have a good command of the Russian language and grasp the vast cultural phenomena of Russia. We focus our education on enhancing students’ professional sensibility not only to Russian language itself but also to the Russian cultural phenomena, ancient and modern, so that they can be specialists of Russia.

Russian Language at Kyung Hee
The Department of Russian Language was established in 1992 and had its first graduate students in 1996. The Department offers courses in language, culture, literature, and area studies of Russia. We set up sisterhood relationships with Russian universities, so that students go on exchange and to take part in language programs to enhance their education. The students learn practical spoken Russian from native professors and apply this knowledge later in their academic careers to the study of language and area studies. Students are encouraged to consult with their advisors in arranging their program.

Degree Requirements
To receive the Bachelor of Arts in Russian, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 6 units of Essential General Subjects of Kyung Hee University in the areas of foreign language (6 credits of Foreign Language 1, 2).
  ※ Only Foreign Language 1 can be exempted with the acquisition of a Certificate of Language Competency issued by publicly acknowledged institutions.
- complete 6 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the College Basic Courses).
- complete 54 credits of Major Courses for Russian (12 credits of Required Major Courses and 42 Selected Major Courses).

Courses
Year 1
Elementary Russian 1, Elementary Russian 2, Russian Conversation 1, Russian Conversation 2

Year 2
Russian History and Culture, Russian Conversation 3, Russian Conversation 4, Russian Grammar 1, Russian Grammar 2, Russian Reading 1, Russian Literature, Russian Area Study, Introduction to Russian, 19th Century Russian, Russian History, Russian Pronunciation

Year 3
Russian Conversation 5, Russian Conversation 6, Russian Reading 2, Russian Writing, 20th Century Russian & Literature, Russian Classic, History of Russian Thought, Russian Politics and Economics
Year 4
Russian Literature Reading, Practical Russian, Russian Interpretation and Translation, Russian Native Reading, Russian Culture Seminar

Careers and Graduate Destinations
Although Russia is a world power with great potential, there are few Russian experts in Korea. Students who have competence in Russian language and culture have various possibilities for their future careers: interpreter, translator, professional in companies, government, airlines, and so on. The student who completes the teacher training course can also receive the teaching certificate and work as a teacher. The student can continue to graduate school either in Korea or abroad and become a professor.

Faculty
Woo-Seob Yun, Ph.D. University of Marburg, 1993, Professor, Russian Literature, yoonwo@khu.ac.kr
Se-Eun Kwon, Ph.D. Moscow State University, 1996, Professor, Political Science, sekwon@khu.ac.kr
Byong-Yong Ahn, Ph.D. Moscow State University, 1998, Associate Professor, Russian Literature, byahn@khu.ac.kr
Ji-Young Ahn, Ph.D. Institute of Russian Literature, Russian Academy of Sciences, 2002, Associate Professor, Russian Literature, ajiyoung@khu.ac.kr
Budnikova Galina Aleksandrova, B.A. Far Eastern State University, 2000, Assistant Professor, Teaching Russian as a Foreign Language, gbudnikova@khu.ac.kr
Natalia Yuryevna Gryakalova, B.A. Institute of Russian Literature (Pushkinskij Dom) of Russian Academy of Science, 1998, Assistant Professor, Russian Literature, irliran@mail.ru

College of Foreign Languages and Literature
Department of Chinese Language
Tel : +82 31 201 2219    Fax : +82 31 204 8112    E-mail : cofla3@khu.ac.kr    URL : http://zhongwen.khu.ac.kr/

What is Chinese Language Program?
The Department of Chinese Language and Literature focuses on the study of the humanities which serves as the foundation of Eastern and Western cultures. This permits the study of humanism based on the principles of truth and freedom, and in a broader sense, the nurturing of future leaders of Korea as well as international culture. In pursuit of these aims, the college encourages the development of a new spirit of learning through revisiting the old, the creative ability to adapt learned truths to a changing world, and the formation of new cultural paradigms to integrate the best of Eastern and Western cultures, all with the purpose of leading Korea forward into the new millennium.

Chinese Language at Kyung Hee
The Department of Chinese Language was first established as a division in the college of Humanities in 1960 in Seoul. The program of Chinese Language and Literature offers courses in languages, culture, literature, and linguistics of China. Courses taught in Korean introduce students from many disciplines to the culture, philosophy, linguistics, and literature of China. Courses in Chinese enable students to progress from an elementary working knowledge of either language to oral and written fluency. Students learn practical spoken Chinese from visiting Chinese professors and apply this knowledge later in their academic careers to the study of literature and linguistics. Students who major in Chinese Language must complete 45 credit hours in Chinese. Students are encouraged to consult with their advisors in arranging their programs.
Language study is today a field undergoing major changes and improvements. The department is constantly seeking to respond to these changes by updating its instructional program.

**Degree Requirements**
To receive the Bachelor of Arts in Chinese, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 9 units of Essential General Subjects of Kyung Hee University in the areas of foreign language (6 credits of Foreign Language 1, 2) and computer (3 credits).
  ※ Only Foreign Language 1 can be exempted with the acquisition of a Certificate of Language Competency issued by publicly acknowledged institutions.
  ※ 3 credits for computer proficiency can be fulfilled by taking Language and Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign Languages and Literature (This course can be exempted with acquisition of a certificate issued by publicly acknowledged computation institutions).
- complete 9 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the College Basic Courses and one from the courses of Each Country’s History and Culture).
- complete 45 credits of Major Courses for Chinese (12 credits of Required Major Courses and 33 Selected Major Courses).

**Courses**

**Year 1**
- Elementary Conversation Chinese 1, 2, Chinese 1, 2, Chinese History and Culture, Understanding of Chinese Sentence

**Year 2**
- Selected Readings of Old Chinese Text, Chinese Language and Society, Selected Readings in Scholarly Chinese Texts, Intermediate Conversation Chinese 1, 2, Chinese History Talk, Chinese Grammar, Old Chinese Proverbs, Chinese Language and Society, China’s Foreign Relations

**Year 3**
- Understand Chinese Graphology, Current Topic in Chinese, Understanding of Modern Chinese Literature, Screen Chinese, Advanced Conversation Chinese 1, 2, Chinese Composition, Business & Practical Chinese

**Year 4**
- Seminar in Chinese Language, Practice of Chinese Interpretation, Applied Chinese Conversation 1, 2, Readings of Advanced Chinese Classics, Practice of Chinese Translation, Chinese Economic Development

**Careers and Graduate Destinations**
Most graduates with a degree in Chinese and Chinese Literature are employed at companies, especially large companies, fully taking advantage of their major.
The prospects of better relations with the People’s Republic of China will enable the graduates to have more job opportunities.

**Faculty**
- Chui-Lan Choo, Ph.D. Dankook University, 2002, Professor, Chinese Conversation, clchoo@khu.ac.kr
- Kwan-Dong Min, Ph.D. Taiwan Culture University, 1994, Professor, Classical Chinese Literature, kadmin@khu.ac.kr
- Jae-Suk Bae, Ph.D. University of Nanjing, 1996, Professor, Chinese Linguistics, jsbae@khu.ac.kr
- Sang-Kyun Rho, Ph.D. Taiwan Culture University, 1997, Associate Professor, Classical Chinese Literature, rsk999@khu.ac.kr
- Jae-Woo Choo, Ph.D. Peking University, 1997, Associate Professor, Chinese Foreign Policy, jwc@khu.ac.kr
- Kyung-Seog Kim, Ph.D. Peking University of Education, 2001, Assistant Professor, Modern Chinese Literature, kskim612@khu.ac.kr
- Young-Wol Lee, M.A. Seoul Women’s University, 1997, Assistant Professor, Chinese Conversation,
What is Japanese Language Program?
We direct our education for our students to have a deeper sense of linguistic and cultural developments of Japan in connection with the major political and social events in history, dealing with the areas of Japanese linguistics, Japanese fiction, film studies, and Japanese studies. With this knowledge, our students will be well equipped to serve as professionals such as professors in Japanese linguistics, cultural studies, or literature and also as critics and columnists of the mass media such as film and video art, working for newspapers and magazines.

Japanese Language at Kyung Hee
The program of Japanese Language was first established as a division in the College of Humanities in 1981. The program of Japanese Language and Literature requires students to be proficient in Japanese as a preliminary step towards gaining entrance into the world of Japanese language, literature and culture. Accordingly, it offers four categories of courses: 1) Japanese instruction through face-to-face interaction; 2) strengthening Japanese ability through written and spoken contexts; 3) advanced Japanese courses that approach an understanding of Japanese culture; 4) comprehensive courses covering Japanese linguistics, literature, history, and society. Upon successfully completing their courses, students possess a strong degree of confidence in any field of Japanese study, and are fully ready to apply their knowledge to the academic and business world concerning Japan.

Degree Requirements
To receive the Bachelor of Arts in Japanese, a student must:
* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 9 units of Essential General Subjects of Kyung Hee University in the areas of foreign language (6 credits of Foreign Language 1, 2) and computer (3 credits).
  * Only Foreign Language 1 can be exempted with the acquisition of a Certificate of Language Competency issued by publicly acknowledged institutions.
  * 3 credits for computer proficiency can be fulfilled by taking Language and Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign Languages and Literature (This course can be exempted with acquisition of a certificate issued by publicly acknowledged computation institutions).
* complete 9 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the College Basic Courses and one from the courses of Each Country’s History and Culture).
* complete 45 credits of Major Courses for Japanese (12 credits of Required Major Courses and 33 Selected Major Courses).
Courses

Year 1
Elementary Japanese Conversation 1, 2, Japanese 1, 2

Year 2

Year 3

Year 4
Screen Japanese, Composition of Japanese Sentence, Society and Culture of Japan, Seminar on Japanese Literature 1, 2, Seminar on Japanese Linguistics 1, 2

Careers and Graduate Destinations
Our students have many opportunities to choose careers such as Japanese teachers, newspaper reporters, literary critics as well as journalists for magazines and broadcasting companies. They can also work as translators or interpreters. Some students may enter graduate school.

Faculty
Sook-Ja Lee, Ph.D. Aoyamagakuin University, 1980, Professor, Japanese Literature and Education, lsj@khu.ac.kr
Minowa Yoshitsugu, M.A. Waseda University, 1978, Professor, Japanese Literature of Edo Period, minowa@khu.ac.kr
Mi-Sun Oh, Ph.D. Ochanomizu Women’s University, 1997, Professor, Japanese Linguistics, msoh@khu.ac.kr
Young-Bu Kang, Ph.D., M.A. Tsukuba University, 1992, Associate Professor, Japanese Linguistics, ybkang@khu.ac.kr
Chang-Su Lee, Ph.D. Candidate, Kyung Hee University, 2003, Associate Professor, Japanese Ancient Literature, echance@khu.ac.kr.
Matsumoto Shinsuke, Ph.D. Waseda University, 2000, Assistant Professor, Japanese Literature, nosmoke@khu.ac.kr
Togasaki Yuich, M.A. Tohoku University, 1995, Assistant Professor, Linguistics, togasaki@khu.ac.kr

What is Korean Language and Culture?
The Department of Korean, through its Korean Language Program and Korean Culture Program, aims to produce experts in Korean studies. The Korean Language Program is divided into two major areas: Korean linguistics and Korean language education. Korean linguistics includes the study of phonology, syntax, semantics, and pragmatics; Korean language education consists of courses for students training to become Korean language teachers. The Korean Language Program trains students interested in the Korean language to obtain the qualifications to teach Korean to foreigners. The Korean Culture Program is composed of courses designed to expose students to Korean culture. Recognizing the
importance of culture in language learning, the Korean Culture Program incorporates a broad cultural education, giving students ample opportunities to embrace both Korean culture and other cultures of the world.

Korean Language and Culture Program at Kyung Hee

Kyung Hee University has a long tradition of research and teaching of Korean language and culture. Setting a precedent in Korea, the Department of Korean was established in the College of Foreign Language & Literature of Kyung Hee University in 1999. Since then, it has been playing a leading role in introducing Korean language and culture worldwide. The curriculum is composed of courses on teaching Korean as a foreign language, Korean traditions, and modern Korean culture. The department welcomes international students interested in learning about the Korean language and culture.

Degree Requirements

To receive the Bachelor of Arts in Korean Language, a student must:

* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 6 units of Essential General Subjects of Kyung Hee University in the areas of foreign language (6 credits of Global English 1, 2, or 6 credits of Korean1, 2 for foreigners).
* complete 6 credits of the General Studies of the College of Foreign Language and Literature.
* complete 48 units of Professional Electives for Korean Language and Culture Studies.

Courses

Curriculum for Korean Students

Year 1
Introduction to Korean Language, Introduction to Korean Language Education, Korean Folk Culture, Korean Modern Culture

Year 2

Year 3

Year 4

Curriculum for International Students

Year 1
Korean 300 (F), Practice in Modern Korean Vocabulary (F), Practice in Modern Korean Grammar (F), Selected Readings in Modern Korean (F), Korean Conversation (F), Korean Composition (F), Introduction to Korean Language (F), Introduction to Korean Language Education (F), Korean Folk Culture (F), Korean Modern Culture (F)

Year 2
Korean 400 (F), Screen Korean (F), Korean History and Culture (F), Discussion and Presentation in Korean (F), Korean Academic Composition (F)

Careers and Graduate Destinations

* Required credits for Korean language teacher qualification are as follows: level 1 teacher (Korean language: 6 credits), level 2 teacher (general or applied linguistics: 6 credits), level 3 teacher (Korean language education theory: 24
credits), level 4 teacher (Korean culture: 6 credits), level 5 teacher (practicum: 3 credits).

- Elective major subject “Understanding Language” also fulfills level 2 teacher requirement. A graduate who has completed the prescribed courses of the Department of Korean Language is able to proceed to graduate programs to become a scholastic specialist or an expert in Korean language and culture or a Korean language teacher for foreigners at a training institute. Majoring in Korean language and a foreign language enables graduates to extend their career to the press such as a newspaper office and broadcasting company. They also can enter the teaching profession.

Faculty
Hwa-Hyoung Lee, Ph.D. Kyung Hee University, 1993, Professor, Korean Literature (Korean Traditional Culture), hhlee@khu.ac.kr
Dong-Ho Pak, Ph.D. University of Quebec at Montreal, 1996, Associate Professor, Linguistics (Korean Language Education), pakdh@khu.ac.kr
Sun-Yi Lee, Ph.D. Kyung Hee University, 1999, Associate Professor, Korean Literature (Korean Modern Culture), budatree@khu.ac.kr
Young-Joo Kim, Ph.D. The University of Rochester, 1989, Assistant Professor, Linguistics (Language Acquisition), yjkims@khu.ac.kr
Jung-Nam Kim, Ph.D. Seoul National University, 1998, Assistant Professor, Korean Literature (Korean Linguistics), kim@khu.ac.kr

College of Foreign Languages and Literature

Department of British and American Language and Literature

Tel : +82 31 201 2204 Fax : +82 31 204 8112 E-mail : cofla1@khu.ac.kr URL : http://deptofenglish.khu.ac.kr/

What is British and American Language and Literature?
British and American Language and Literature is a major which deals with all subjects concerning the English language and literature of the United States and England. Language- and literature-related courses help maximize the English language competency of its students and broaden their perspectives on linguistics and literature so that they are prepared to enter the competitive international community as experts and leaders.

British and American Language and Literature at Kyung Hee
The Major in British and American Language and Literature offers courses in English literature, linguistics, and British and American culture. By providing practical language education along with studies in literature and linguistics, it aims to train students to become highly competent English speakers and assume leadership in today’s global society. In addition, it is our aim to help students better understand the cultures in the wider English-speaking world and ultimately to advance Korea’s own culture. To meet these goals, students are offered courses in 1) Practical English, 2) English linguistics, 3) English literature, and 4) Cultures of the English-speaking world. Practical English language education courses include English discussion, composition, and reading courses as well as translation and professional English courses. The Linguistics component offers courses related to English grammar, structure, and pronunciation. English literature courses cover core topics in the English novel, poetry, drama, and history of literature. Cultures of the English-speaking world include courses introducing the history and popular culture of English-speaking countries.
Degree Requirements
To receive the Bachelor of Arts in British and American Language and Literature, a student must:
* complete a minimum of 130 credit units.
* complete 9 units of Essential General Subjects of Kyung Hee University in the areas of foreign language and computer (6 credits of College English: Special English Lecture 1 and Special English Lecture 2; 3 credits of Language and Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign Languages and Literature).
* Requirement for the area of computer can be exempted with the acquisition of certificates issued by publicly acknowledged computation institutions.
* complete 9 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the General Subjects of the College and one from the courses of Each Country’s History and Culture).
* complete 36 units of Major Courses for English: 12 credits of Required Courses and 24 credits of Elective Courses.
* Students who study English as a minor have to take at least 21 credits of major courses.
* Students must meet the requirements of minimum English competency [TOEFL score of 520 (PBT) or 190 (CBT) or TOEIC score of 720 or TEPS score of 620].

Courses
Year 1
Speech and Discussion 1, English Grammar, Introduction to English Literature, Introduction to Cultural Studies, Introduction to English Linguistics

Year 2
Critical Reading and Writing 1, Speech and Discussion 2, Understanding English Poetry, English Essay, Understanding English Pronunciation, Essays on English Linguistics, Advanced English Reading, Modern British-American Plays, British Novels, American Novels

Year 3

Year 4
English Translation and Interpretation 1, English Translation and Interpretation 2, Business English, Literary Criticism, Special Lecture on British-American Literature

Careers and Graduate Destinations
Our students have a variety of choices for their career such as English teachers at every level of education ranging from kindergarten to high school and college if they pursue advanced degrees after graduation in the future. Newspaper reporters, literary critics as well as journalists for magazines and broadcasting companies are other possible careers open to them. They can also work as simultaneous interpreters or work translating books. Since English is highly demanded, the prospect for our students’ job hunting is very promising, unaffected by the fluctuating employment rate of our country.

Faculty
Jong Huh, Ph.D. Chungnam National University, 1992, Professor, Shakespeare and Modern Drama, huhj@khu.ac.kr
Myoung-Ah Shin, Ph.D. University of Florida, 1989, Professor, Literary Criticism and American Fiction, mashin@khu.ac.kr
Keon-Soo Lee, Ph.D. University of Hawaii, 1991, Professor, English Linguistics, kslee@khu.ac.kr
Han-Gyu Lee, Ph.D. University of Illinois at Urbana-Champaign, 1992, Professor, English Linguistics, hglee@khu.ac.kr
Jae-Hak Yoon, Ph.D. Ohio State University, 1996, Associate Professor, English Linguistics, jyoon@khu.ac.kr
Ki-Wan Sung, Ph.D. Pennsylvania State University, 1998, English Education, Associate Professor, kwansung@khu.ac.kr
Todd McGowan, M.A. Acadia University Canada, 1989, Assistant Professor, English Culture,
What is British and American Culture?
The 21st century may rightly be called the age of culture. The ability to understand, analyze, and produce culture is pivotal for the survival and growth of individuals and nations. Thus in-depth study of culture in the English-speaking world is significant and inevitable to meet the challenges of the new century. As English becomes the global language, American and British culture is expanding its influence on the rest of the world. In order to be able to collaborate and compete in the increasingly competitive world led by English-speaking culture, it is necessary to become familiar with and understand the ways of thinking and living in these countries as well as embark on a thorough and concrete study not only of their language and literature but also of their culture. The major in British and American Culture offers a variety of courses that will provide practical and comprehensive understanding of British and American culture.

British and American Culture at Kyung Hee
The major of British and American Culture deals with the comprehensive culture in the English-speaking world, but with special emphasis on British and American culture. Culture in its broad sense is a whole way of life, or a signifying system, through which a social order is communicated, reproduced, experienced, and explored. It is not just the high intellectual and artistic activity but also everyday life such as eating, clothing, feeling, and consuming. In order to cover the whole area constituting culture, British and American Culture offers courses on the popular as well as high cultures in the English speaking countries. It provides courses on performing arts such as drama and musical, narrative that constitutes the basis of all arts, and film that has already ascended as the leading genre of the contemporary world. Special critical attention is paid to language both as the central tool of communication and the arena in which social and cultural differences are reflected and produced. The major also deals with several central cultural phenomena that have recently gained their political importance such as feminism, globalization, and sexual revolution. In order to see these contemporary issues in the historical context, it provides courses on the history of British and American cultural thoughts and criticism. Successful completion of the major will prepare students to become specialists in the British and American culture and leaders in today’s global society.

Degree Requirements
To receive the Bachelor of Arts in British and American Language and Literature, a student must:
• complete a minimum of 130 credit units.
complete 9 units of Essential General Subjects of Kyung Hee University in the areas of foreign language and computer
(6 credits of College English: Special English Lecture 1 and Special English Lecture 2 and 3 credits of Language and
Computer, a course offered by the Department of Korean as Essential General Subject of the College of Foreign
Languages and Literature).
※ Requirement for the area of computer can be exempted with the acquisition of certificates issued by publicly
acknowledged computation institutions.
• complete 9 credits of the General Studies of the College of Foreign Language and Literature (2 courses from the
General Subjects of the College and one from the courses of Each Country’s History and Culture).
• complete 36 units of Major Courses for English: 12 credits of Required Courses and 24 credits of Elective Courses.
• students who study English as a minor have to take at least 21 credits of major courses.
• students must meet the requirements of minimum English competency [TOEFL score of 520 (PBT) or 190 (CBT) or
TOEIC score of 720 or TEPS score of 620].

Courses
Year 1
Speech and Discussion 1, Introduction to Cultural Studies, Introduction to English Linguistics, Introduction to English
Literature
Year 2
Film and American Culture, Culture and Performing Arts, Storytelling, Advanced English Reading, Critical Reading
and Writing 1, Speech and Discussion 2
Year 3
Globalization and Multiculturalism, Studies on Characters, Cultural Studies on SF and Fantasy, American Popular
Culture, Language and Culture, Critical Reading and Writing 2
Year 4
Feminism Culture, Criticism of American Culture, Cultural and Sexuality, History of American Thought, Practice in
Cultural Criticism, Language and Gender, Business English, English Translation and Interpretation 1, English
Translation and Interpretation 2

Careers and Graduate Destinations
Our students have variety of choices in various fields such as communications, media, trade, business, banking,
publishing, education, and other areas requiring background knowledge and understanding of cultures in English-
speaking world. With strong undergraduate background in interdisciplinary study provided by the major, graduate study
is also possible in all areas including English literature, British and American history, philosophy, religion,
anthropology, cultural studies, sociology, and education.

Faculty
Sung-Hee Choi, Ph.D. University of Maryland at College Park, 2000, Associate Professor, Theatre and Drama,
shchoi@khu.ac.kr
Sung-Ran Cho, Ph.D. State University of New York at Buffalo, 2003, Assistant Professor, Interpretation, American
Fiction, Cultural Theory, scho@khu.ac.kr
Myung-Ho Lee, Ph.D. State University of New York at Buffalo, 2001, Associate Professor, American Fiction and
Cultural Theory, mhlee@khu.ac.kr
Taek-Gwang Lee, Ph.D. The University of Sheffield, UK, 2004, Assistant Professor, Cultural Theory, tglee@khu.ac.kr
Todd McGowan, M.A. Acadia University Canada, 1989, Assistant Professor, English Culture,
toddmcgowan@hotmail.com
Peggy Cho, M.A. Northwest University, 1997, Assistant Professor, English Literature, pcho@khu.ac.kr
Deanna Rengstorff, M.A. Central Washington University, 1973, Assistant Professor, English Culture,
drjr2001@hotmail.com
College of Art and Design

Department
Industrial Design
Visual Information Design
Landscape Architecture
Textile and Clothing Design
Digital Art and Design
Ceramic Art
Theater & Film
Postmodern Music
What is Foundation Course?
Foundation Course in College of Art & Design at Kyung Hee
One of the most basic and essential stages among the courses taught in design schools are Foundation Courses. Generally, it is defined as “Foundation Courses” in that it is an educational process for freshmen in College of Art and Design to explore their major before they take in-depth main courses. Foundation courses at the School of Design are significant since they constitute the basis of education to develop students’ creativity as well as to conduct structured design training.

The College of Art and Design at Kyung Hee
The university conducts its educational programs mainly by instructors who specifically study and teach foundation courses. Programs for the freshmen at the School of Design are consisted of interrelated liberal arts, required liberal arts, and general liberal arts. Interrelated liberal arts, basic major courses at the School of Design, are consisted of practical and theoretical courses along with courses that contain both characteristics. In particular, the courses offered during spring semester are mainly focused on developing creativeness and designing capability through basic practical programs, while courses for 2 semesters are organized with practical and theoretical courses as extended courses for those from the first semester. Through these foundation courses, students are encouraged to make significant enhancement of understanding and creativeness of design, and be able to explore and choose an appropriate major that matches one’s talent. Furthermore, it is expected that students will be able to develop novel aspects to understand design with diverse perspectives from socio-cultural phenomenon, history, and technology.

Courses
Observations and Expressions (Drawing Fundamentals)
This is an observational and expresional drawing course, taught in support of the design process and visual communication. The role of the observational component is to develop sight and mind coordination through objective observation of the figure, still life, and space. The role of the expresional component is to develop an understanding of methods, and drawing systems, such as contour, gesture, anatomical, and perspective drawing. Materials are introduced and applied, which include graphite, charcoal, ink, color pencil, and marker, etc.

2D Design
This course introduces the elements and principles of two-dimensional design through projects that emphasize discoveries through experimentation, research, analysis, and problem solving. The class begins with understanding of design issues focusing on point and line to plane, the fundamental elements of art and Design. Students are introduced to the theories of form and shape in 2D space through various design projects.

Understanding of Plastic Arts
This course introduce to the world art from pre-history to the present days with a focus on Eastern & Western history through cognitive analysis and methodological approaches. The objective is to expose students to the breadth and diversity of the visual arts worldwide and to provide a sense of historical and cultural context by means of chronological organization. Lectures, reading materials, visual materials, and discussion of broaden critical perspective enable students to become more articulate in expressing their understanding of visual arts. Research and/or response papers and class presentations will be assigned to strengthen written and oral skills.
Materials and Expressions (3D Design)
This course introduces students to the basic principles, processes, and materials of three-dimensional design through a series of projects that emphasize problem solving, experimentation, and tangible results. Students explore form, space, and structure by use of such concrete design elements as line, plane, shape & form, mass, volume, surface & texture, scale & proportion. Various materials are introduced, such as paper, wire, wood, clay, etc.

Color and Design
This course introduces the basic elements of color and principles of color theories through projects that emphasize discovery through experimentation and research. Students are also introduced to the system analysis how to use color to make successful design and to promote product advertising etc.

History of Modern Art
This course introduces modern art from 20th century to the present days with a focus on cognitive analysis and methodological approaches. Lectures, reading materials, visual materials, and discussion of broad critical perspective enable students to become more articulate in expressing their understanding of modern arts. Research papers and group presentations will be assigned to sharpen written and oral skills.

Education Goal
The objectives of design in the 21st century ‘s society, which is based on intelligence, are to produce potential students with rationality and creativeness in plastic arts through research on diverse academic fields. The objectives of the education programs in Kyung Hee University ‘s College of Art and Design are to encourage talented students with creativity who are able to prospect history, culture, and the future. To reach the educational goals, the foundation courses provided to the freshmen in College of Art and Design aims at four main goals: foundation courses to encourage creative designing capability, education equally based on both practical and theoretical courses, foundation courses closely related to each major, and systematic foundation courses instructed by professors who specifically studied in those fields.

Faculty
Eun-Jung Kim, M.F.A. Fachhochschule Dueseldorf, 2000, Assistant Professor, Typography & Editorial Design, brody@khu.ac.kr
Min-Hie Yun, Ph.D. University of Paris 8, Associate Professor, Plastic Arts, pryoon@khu.ac.kr
Hwa-Sun Yeo, M.F.A. Pratt Institute, 1997, Assistant Professor, Foundation/Ceramic/Design, hsyeo@khu.ac.kr

College of Art and Design

Department of Industrial Design
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URL: http://artndesign.khu.ac.kr/en_khu/sub/022.php

What is Industrial Design?
The most valued industry in modern industry-based society is the design industry. The design industry promotes a new system in modern society by creating a globalized culture that surpasses national, cultural, and language barriers. At such point of time, educating distinguished designers means rearing future workers that will carry the future of our nation. It is also a study that enables new generations to express their unique personalities in unique ways.
Industrial Design at Kyung Hee

Our educational objective is equipping students with the ability to adapt to a global, information-oriented age and cultivating students of talent in a knowledge-oriented society where creativity is highly demanded. Also, we focus on cultivating professionals with comprehensive thinking ability along with creative thinking ability. Furthermore, we lay emphasis on cultivating industrial designers with leadership ability for serving the country and the community.

Degree Requirements

- Complete a minimum of 130 credit units.
- Satisfy the General Requirements of the School for professional degrees.
- Recognition of basic major: 14.
- Compulsory major subject in industrial design: 12.
- Major subject in industrial design: minimum 55.
- Acquire C.R.S. (foreign language, computer).

Courses

Year 2

Year 3

Year 4

Careers and Graduate Destinations

The major in Industrial Design fosters a professional workforce that will lead the future industry by keeping pace with the rapidly changing times and the environment. We have been striving continuously to improve the quality of student work and to guide the employment and future direction for our graduates. For this purpose we have been trying to improve our education methods, putting efforts into developing a variety of materials and providing hands-on experience in order to induce creative ideas from them and to provide major training. As a result, for the past three years there has been substantial increase in the rate of employment and admissions to higher level academic institutions. Also, guidance of student employment and enrollment for further studies are being established by offering a variety of special career seminars and information.

We have built the system of academic/career counseling suitable to students’ aptitude by nominating guidance professors for each different field (Product Design, Display Environment Field, Planning, Academic Counseling for Graduate School) for open, active academic/career counseling. We concentrate on developing educational-industrial cooperation that can be of practical help in aiding students to understand career-related data for different fields, along with active utilization of the career information center established within the university. In effect, with the reorganization of the education system along with creative design education methods, we offer ample opportunities for entering graduate schools and career fields. As a result, most of our students utilize their professionalism and creativity and play a leading part in professions and the academic world.

Faculty

Myung-Sick Choi, M.D.E.S. Royal College of Art Industrial Design (RCA), 1986, Professor, Product Design,
What is Visual Information Design?
Modeling activity in an industrial society is a practical fusion of art and technology. The modern age requires a new order of the social function of art.
The basis of design starts with visual approach. The Department of Visual Design has a systematic and effective course from fundamental field to advanced design.
Therefore, students can improve their capability of expression and modeling sense into various skills of expression. At the same time, information design which is essential in marketing activity and media industry needs significant creative visual design.
The major in Visual Design provides qualified education for students’ future careers.

Degree Requirements
To receive the Bachelor of Science in Visual Information Design, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.
- complete 15 units of Required Courses.
- complete 43 units of Technical Electives for visual Information design.
- complete 41 units (maximum 42 units) stated in the common studies program and Humanities/Social Science Electives.
Courses

Year 1

Year 2

Year 3

Year 4

Careers and Graduate Destinations
After graduation, students can take the role of designer or art-director in the public information section or advertising agencies as a director or create commercials. Those who are interested in illustration can find their career in a publishing company or a magazine company. Many other fields are open to them such as editing-design, handwriting-design, package-design, photography, motion picture design. According to individual goals, they can run a design agency, go onto graduate schools or take a training course abroad.

Faculty
Hun-Hyuk Im, M.F.A. Chung-Ang University, 1985, Professor, Advertising Design, imhyo@khu.ac.kr
Mee-Kyung Jang, Ph.D. Seoul National University, 2007, Professor, Illustration, meekyungjang@hanmail.net
Soo-Jin Jung, M.S. Pratt Institute, 1996, Associate Professor, Communication Design, soo@khu.ac.kr
Hyeong-Seok Kim, M.F.A. Hongik University, 1995, Assistant Professor, Identity Design, designer@khu.ac.kr

What is Landscape Architecture?
Landscape architecture is a synthesized, applied science that contributes directly to public welfare by producing more livable cities and towns. The major in Landscape Architecture aims to produce skillful landscape architects capable of creating a comfortable living environment for others. Thus, students immerse themselves in a number of courses in the field of botany (to employ plants as landscape architectural materials), aesthetics (to find expression for their artistic inclinations), and engineering (in order to bring their artistic visions into reality).
Landscape Architecture at Kyung Hee
Most other universities in Seoul do not have their own landscape architecture major. And even if they do offer this major, most likely it would be part of architecture and civil engineering, agriculture, or urban planning & design. But the Landscape Architecture major at Kyung Hee University is part of the Art & Design College. Consequently, this major is outstanding in the design field.
The purpose of this major is to produce a specialist in the field of landscape architecture. To achieve this specialty in landscape architecture, students are required to take basic design courses and theories in both the freshman and sophomore years. Design studios prepare juniors and seniors for real world jobs after graduation.
Moreover, to meet the demands of globalization, Landscape Architecture has become partners with foreign universities. This sisterhood with foreign universities offers great opportunities to send our students abroad to universities like Chiba University in Japan, Peking University in China, and Universiti Teknologi Malaysia for short-term studies. The department holds seminars and symposiums with its foreign partners.

Degree Requirements
- At least 69 course units of undergraduate level credit in Landscape Architecture courses are required for the bachelor’s degree.
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the LA thesis committee.
- A thesis advisor can be any faculty member from the LA major.

Courses

Year 1
- Observe and Express, Basic Design, Material and Expression, Color and Design, Understanding of Plastic Arts, History of Modern Art

Year 2

Year 3

Year 4

Careers and Graduate Destinations
- After graduation, students can choose various jobs according to their aptitude and ability. Major fields are planning & design, construction, and management. They can get jobs in a planning & design office, a construction company, or government office.
- Additionally, they can perform research in national institutes or research labs and become teachers after they earn a Master’s degree and doctoral degree from domestic or foreign universities.
- Today, the jobs rating for as Landscape Architect is very high, with 100% guaranteed jobs after graduation.

Faculty
- Dong-Chan Kim, Ph.D. Kyung Hee University, 1987, Professor, Landscape Architectural Design, dckim@khu.ac.kr
- Joo-Hwan Suh, Ph.D. Kyung Hee University, 1987, Professor, Visual Resources Management, jhshu@khu.ac.kr
- Do-Kyong Kim, Ph.D. Korea University, 1996, Professor, Landscape Planning & Design, kimdk@khu.ac.kr
- Shin-Won Kim, Ph.D. Kyung Hee University, 1996, Professor, Landscape Planning & Design, kimsw@khu.ac.kr

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What is Textile and Clothing Design?
Textile design includes printing textile design, weaving design, yarn dyed or plain dyed design, knit, and embroidery for the apparel and home fashion markets. Nowadays CAD systems are helpful in both apparel and textile designs. We consider three elements to be important in the students’ education: knowledge of consumers, fabrication and aesthetics such as design, color and decoration to create successful commercial garments. The major in textile and apparel design offers qualified students the opportunity to prepare for careers in the fabrics, fashion, home furnishings and related industries as designer, colorist, stylist and studio director as well as free lance entrepreneur, converter, or quality control representatives.

Textile and Clothing Design at Kyung Hee
Newly established in 1999, the major in Textile & Clothing Design provides practical education in textile design and fashion design areas. Textile Design students learn the basics of designing fabric including stripes, plaids, geometric, flowers and other patterns while exploring color and technique. To enhance textile design skills, several courses oriented toward surface printing design, hand painting, dye & dyeing, etc. will be offered. Also there are fashion-related courses such as the principle of fashion design, fashion studio dealing with clothing construction, fashion illustration, and draping. Since students will be able to further their design skills through a greater understanding of textile materials and use of the latest technology, they will obtain knowledge of physical and chemical properties of textiles through textile finishing, textile material, apparel production processing, quality control courses. Understanding textile materials will help students select proper textile material for appropriate end use in their own designed clothing. In sensibility human engineering & clothing ergonomics courses, students enlarge the ability of making suitable, sensible and comfortable clothing. In addition, this major deals with textile marketing and fashion merchandising. Students are strongly encouraged to research the market to use the database for creating a design tailored to the consumer’s desire. Considering the global market environment, they learn how to conduct international business. Applications of the computer to the design of woven, printed textiles and knitted fabric will be also taught, using the CAD program. CAD skills are used widely in the industry nowadays. Through our carefully designed program, students gain a strong foundation in textile & textile design, apparel manufacturing, and apparel management.

Degree Requirements
To receive the Bachelor of Science in Textile and Clothing Design, a student must:
• complete at least 130 credits.
• complete 4 Required Courses (Textile design, Fashion studio, Textile planning, Clothing & thermal environment).
• complete 55 credits from the Courses which are offered in Textile and Clothing Design Majors.
Courses
Year 1
Observe and Express, Basic Design, Material and Expression, Color and Design, Understanding of Plastic Arts, History of Modern Art

Year 2

Year 3

Year 4

Careers and Graduate Destinations
After graduation students can work in various fields. Representative jobs include textile designer, textile converter, fashion designer, fashion merchandiser, buying agent, stylist fashion director, coordinator, CAD designer, theater costume specialist, critic person, promotion industries, event creating company, foreign retail distribution Korea branch, fashion journalist, researcher, information consultant, etc.

Faculty
Chil-Soon Kim, Ph.D. Kansas State University, 1995, Professor, Textile Design, Merchandising, Clothing and Thermal Environment, cskim@khu.ac.kr
Jeong-Wook Choi, Ph.D. Ewha Womans University, 2000, Assistant Professor, Pattern Making, Apparel CAD, Clothing Construction, jwchoi@khu.ac.kr
Ki-Chang Han, M.F.A. Sorbonne Pantheon Paris I University, 1998, Associate Professor, Textile Design, Printing, Dyeing, Weaving, DTP, kc418@khu.ac.kr
Cha-Hyun Kim, M.F.A. Ewha Womans University, 1991, Assistant Professor, Fashion Design, Home Furnishing Design, Dyeing, chahyunkim@hotmail.com

What is Digital Art and Design?
Recently motion-graphic art has become more popular and distributed due to the development of the Internet and technology expanding its territory even to the non-professional. It is very important to develop an ability of expressing one’s designated theme so that artwork and technologies have entertaining factors. This is vital at this time when a
language-based society is changing to one of visual communication. To respond to the increasing demand, a new visual art department was invented under the name of “Digital Art and Design.” This department program now includes very sophisticated and practical courses in animation, game design, special film-making and sew design courses that cover all aspects of visual-arts from planning to final editing. This well-organized series of programs will enable one to properly understand and use digital technology. It extends to producing and editing of stories.

Digital Art and Design at Kyung Hee
Kyung Hee University established this major in 1999. With strong future demand for creativity and spirit of challenge, the department has already produced a number of superior alumni in a relatively short amount of time. Our courses represent the full spectrum of producing main media contents from the design for web site to entertainment contents such as game design, 3D animation, motion graphics (movie title, station ID), and flash animation utilizing specialized computer-based systems. The Digital Art and Design major pursues three educational goals: 1) training students to become professionals who will do creative work in main communication media; 2) training students as message tellers who will lead and contribute to a righteous society; 3) training students as precursors who will manage new media and pursue professional careers in computer-related areas. To accomplish these goals, we provide courses focused on fundamental knowledge about multimedia technology and help students improve their creative ability in areas of newly deployed information technology such as multimedia and the Internet. We provide several practical educational programs for students to directly apply their knowledge to real world problems. We also provide the opportunity to extend their careers through intermediate educational programs like sponsorship projects.

Degree Requirements
To receive the Bachelor’s degree in Digital Contents design, a student must:
* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* submit the final work to the graduation exhibition.
* pass the fourth grade project class related in the final works.

Courses
Year 1
Observe and Express, Basic Design, Material and Expression, Color and Design, Understanding of Plastic Arts, History of Modern Art
Year 2
3D Modeling, Creative Idea, Motion Study, Scenario Workshop, 3D Animation, Time & Image, Character Design, Cinematography, Sound Design.
Year 3
Motion Graphics, Interface Design, Character Animation I, Character Animation II, 2D Animation I, 2D Animation II, Game Scenario, VFX (Visual Effect), Interactive Production, Game Design
Year 4
Interactive Project I, Media Art, 2D Project I, Special Effect Project, 3D Project, Digital Contents Marketing

Careers and Graduate Destinations
After graduation, our students have a number of specialized fields they can enter such as animation (2D, 3D, flash) industry, design fields for the website, game producing areas, and most of main communication media. They can also play an important role in the post production process for feature films, music videos and the commercial film industry. With the high demand and spirit of challenge, our students will have increasing opportunities to exploit their skills and contribute to the development of a new media industry. We also strongly recommend students to enter a graduate program related to new media.

Faculty
Hye-Kyung Kim, M.F.A. Pratt Institute, 1992, Associate Professor, Computer Graphics, hkkim@khu.ac.kr
What is Ceramic Art?
In the 21st century’s world of art, ceramics with its rich historical tradition has an important role in preserving humanity and its mental health from cultural impoverishment caused by an information society dominated by technology and science. Accordingly, our mission is to develop highly creative ceramicists qualified to produce the various plastic arts demanded by our future society.

Ceramic Art at Kyung Hee
The Department of Ceramic Art was established in 1963. It is one of the largest in the country, with a strong program in all of the disciplines offering excellent facilities, experienced faculty, and a major opportunity for personal growth. In 1988, a new major ceramic studio building opened. This building consists of 17 studio rooms, an outdoor courtyard and a computer lab for the students. The building contains 40 potter’s wheels, marble-working tables, slab rollers and an extruder. Also there are three electric kilns, six gas kilns, a raku kiln, a wood kiln, a clay mixer, and pug mills. The Department of Ceramic Art is devoted to preparing men and women for careers in ceramics and its related professions and industries. We also provide leadership, research, and other services to those professions and industries. The programs are designed to educate professional artists, designers and teachers who are cognizant of the contemporary situation and desire to better it by devotion to their work and high standards of personal discipline.

Degree Requirements
To receive the Bachelor of Art in the Department of Ceramic Art, a student must:
- complete a minimum of 130 credit units.
- satisfy the General Requirements of the School for professional degrees.

Courses
Year 1
Ceramic Expression, Application of Ceramic Computing, Ceramic Design & Culture, Ceramic Forming, Theory of Ceramic Modeling
Year 2
Basic Ceramics, Wheel Throwing & Firing, Theory of Ceramic Arts, Traditional Ceramic Techniques, Ceramic Interior, Basic Glass, History of Ceramic Art, Media Research, Plaster Forming, Glass Materials
Year 3
Surface Decoration, Glaze Research, Plaster Techniques, Functional Ceramics, Ceramic Sculpture, Ceramic Materials,
Plastic Art Study, Table Coordination, Object, Decal Techniques, Architectural Ceramics, Studio Ceramics

Year 4
Theory of Ceramic Culture, Mixed Media Research, Creative Ceramics 1, 2, Industrial Ceramics 1, 2, Living Object 1, 2, Ceramic & Glass, Seminar & Portfolio

Careers and Graduate Destinations
Many graduates from as far back as 1968 are very active in education and have secured positions as professors or teachers nationwide in more than 20 universities, high schools and middle schools. Others are working in research or design areas in various ceramics related industrial companies. Some graduates are running their own ceramic studios making ceramic products. Thus, the outlook for our graduates seems quite bright.

Faculty
Hun-Gook Lee, Ph.D. Hanyang University, 1995, Professor, Sculptural Ceramics, hkle@khu.ac.kr
Jin Jang, M.F.A. Dama Arts University, 1986, Professor, Conceptual Ceramics, jinj@khu.ac.kr
Seung-Woog Kim, M.F.A. Long Island University, 1988, Professor, Industrial Ceramics, sukim@khu.ac.kr

College of Art and Design

Department of Theater & Film

Tel : +82 31 201 2054    Fax : +82 31 204 8127    E-mail : art2054@khu.ac.kr
URL : http://maebong.khu.ac.kr/~artndesign/sub/027.php

What is Theater & Film?
The Theater and Film major at Kyung Hee University was founded in 1999 in order to respond to our society’s growing need to create various fields of arts. This major provides the excitement of working with experienced artists and scholars. Small classes allow students greater access to both faculty and visiting artists in a variety of classroom and performance situations.

Theater and Film at Kyung Hee
Our performance season runs parallel with the academic year from early March through December of the same year. We average three to eight main stage/film productions annually, with an additional six to eight laboratory shows and film presentations.
The major is dedicated to balancing high-quality production work with rigorous academic study. The development of new work, scholarly articles, and innovative repertory is a high priority.

Degree Requirements
To receive the Bachelor of Art in Theater and Film, a student must:
• complete a minimum of 130 credit units.
• satisfy the Requirements of the School for professional degrees.
• complete 10 general requirements for the first year students.
• complete 55 units of electives for theater and film major (compulsory major subject: 10 units).
Courses

Year 1
Voice and Speech, Movement, Introduction to the Theatre, Singing, Image & Sound, History of Motion Picture, Video Workshop, Introduction to Screenwriting

Year 2

Year 3

Year 4
Advanced Production Workshop, Audition Technique: music, Audition Technique: acting, Theater Practicum, Producing, Study on Korean Film, Creativity, Independent Project in Film, Art Management and Internship, Forum Theatre, Advanced Audition Technique, Advanced Audition Technique Acting

Careers and Graduate Destinations
We provide future theatre artists and film-makers with a deep understanding of the principles and practices of their own artistic mediums.

Faculty
Young-Lan Lee, Ph.D. Candidate, Chung-Ang University, 2000, Professor, Acting and Stage Directing, pegasus@khu.ac.kr
Jae-Sung Kim, M.F.A. University of Texas at Austin, 2000, Professor, Production in Film and Video, magic@khu.ac.kr
Hak-Min Kim, Doctor of Musical Arts University of Texas at Austin, 2001, Associate Professor, Stage & Music Directing for Musical Theater, hakminkk@khu.ac.kr
Jung-Ho Kim, M.F.A California Institute of the Arts, 2001, Assistant Professor, Directing, kafa1006@khu.ac.kr
Hyo-In Lee, Ph.D. of Film Studies Chung-Ang University, 2002, Assistant Professor, Film Theory, South & North Korean Film History, yhi60@khu.ac.kr
What is Postmodern Music?
Commercial music has become the dominant music form in the 20th Century. Commercial music is rock ‘n’ roll, ballad, dance, jazz and all music we can easily hear from many areas of media. The definition of Commercial music also allows us to consider all music that produces an enormous amount of money. This inevitably involves capitalism in music creation. Focusing on the business aspects of music often leads to an absence of artistic aspects in music because the word "commercial" means "similarity," "found-sound," "a copy," and "no-original." Postmodern music makes an attempt to reveal originality in music creation and deeper artistic aspects. This investigation, to a certain extent, lends itself well to the definition of popular music given above forward above. Performing and writing Postmodern music not only require fluent skills in existing and established musical styles and techniques such as rock, pop, jazz, and computer music but it also requires minds and senses of new vision to explore creation of new music putting past, present, and future together. Postmodern music is to prepare for a new century to come.

Postmodern Music at Kyung Hee
Founded in 2000, this program is the premier institution for the study of contemporary music and jazz music offering a Bachelor of Art in Jazz Performance and Composition. The program’s students and faculty members function in an environment designed to provide a comprehensive learning experience covering all of the opportunities and challenges presented by the contemporary music industry. Through extensive facilities, students develop musical competency in every area of composition, performance, and production. The program’s students also participate in regular concerts and work on individual album projects in the studio. Kyung Hee University has a strong tradition of teaching music subjects. The broad curriculum includes Jazz Harmony, Arranging, Film Scoring, Commercial Music, Piano Comping, Rhythm Study, Pop Chorus, Improvisation Analysis, Ensemble, Midi & Sound Design, Computer Music, 20th Century Western Music, Eastern Music, and Improvisation Technique. Every style of contemporary music is explored, including Jazz, Rock, Popular, and Contemporary Classical, as well as music from many parts of the world. The program’s primary goal is to provide students with a thorough technical, conceptual, and historical grasp of Jazz and contemporary music. Students in the Postmodern Music Program work with the creators, not just the interpreters, of Jazz and its offshoots - music that continues to stretch toward and reach ever new expressive and artistic horizons.

Degree Requirements
To receive the Bachelor of Art in Postmodern Music, a student must:
* complete a minimum of 130 credit units.
* satisfy the General Requirements of the School for professional degrees.
* complete 12 units of Required Courses.
* complete 37 units of Technical Electives for Postmodern Music.
* complete 48 units (maximum 56 units) stated in the common studies program and Humanities/Social Science Electives.
* acquire a minimum English proficiency test score of TOEIC 600.
Courses

Year 1
Introduction to Music Theory, Private Lecture 1, 2, Ensemble 1, 2, Jazz Harmony 1, 2, Minor Private Lecture 1, 2,
Improvisation Technique 1, 2, Listening and Solfeggio 1, 2, Piano Class

Year 2
Private Lecture 3, 4, Advance Improvisation Technique, Commercial Music Composition, Midi Orchestration 1, 2,
Blues Class 1, 2, Listening and Solfeggio 3, Computer Music, Ensemble 3, 4, Rhythm Class, Recording Technique,
Commercial Music Arranging

Year 3
Major Lesson 1, 2, Film Scoring 1, 2, Song Writing 1, 2, Reharmonization Technique, Latin Class, Ensemble 5, 6, Jazz
Choir, Advance Orchestration

Year 4
Major Lesson 3, World Music 1, 2, Ensemble 7, Modern Classical Music Analysis, Music Business Class, Oriental
Music Analysis, Conducting Class, Graduation Recital

Careers and Graduate Destinations
The rapid growth of the music industry in recent years has created new career opportunities for talented musicians in
performance and entertainment areas, as well as other commercial music ventures. Skilled musicians can apply formal
training that they received through the program to recording careers, studio performance, arranging or producing, and
live performance. Careers can also be made in song writing, composing and directing television music, film music,
advertising music, as well as music promotion, bookings, and music publishing. Students who majored in recording
often pursue careers as recording engineer, mixing engineer, and sound designer. Graduates can also be hired as
professional salespersons or advisors for musical items and instructors at music institutions. Retail outlets need
musicians who can demonstrate the musical instruments or items they sell. Individuals who can teach music lessons are
always in demand.

Faculty
Woo-Chang Lee, Master of Music Manhattan School of Music, 1995, Associate Professor, Jazz Piano & Jazz
Composition/Arranging, jazz@khu.ac.kr
Michael Staudacher, Master of Music College for Music and Theater Hamburg, 1993, Assistant Professor, Piano & Film
Music Composition/Arranging, star@chol.com
Kyung-Hoon Han, Master of Music California State University of Los Angeles, 2001, Assistant Professor, Pop
Keyboard & Computer Music Composition/Arranging, han@khu.ac.kr
Sung-Kyu Hong, Master of Music Sangmyung University, 2002, Computer Music, Full-time Lecturer, Commercial
Music Composition/Arranging, hong@khu.ac.kr
Dal-Kyun Lim, Master of Music Longy School of Music, 2003, Full-time Lecturer, Jazz Performance/Saxophone,
dalkyun@khu.ac.kr
College of Physical Education

Department
Physical Education
Sports Medicine
Golf Management
Coaching
Taekwondo
What is Physical Education?
Physical Education provides an educational foundation enabling students to develop into successful, professional educators and contributing community members. Cognitive course work, teaching methods, educational foundations, skill acquisition, and practical teaching experiences are just part of the educational process. These experiences afford the individual the opportunity to become a certified physical educator. The physical education major is designed as a professional preparation program of study, leading toward professional roles as directors and leaders in the health/fitness field in corporate, community, university, or commercial settings in which exercise programming is the primary focus. Our graduates are knowledgeable in both health and exercise science and are well prepared to be practitioners in the field that is expanding and taking on new dimensions.

Physical Education at Kyung Hee
The Physical Education (PE) program offers students extensive preparation in education courses, as well as providing strong preparation in the liberal arts. Students in the PE program learn how to communicate the intellectual, physiological and biomechanical concepts of physical activity to people of various ages, abilities, and backgrounds.

Degree Requirements
To receive the Bachelor of Physical Education, a student must:
- complete a minimum of 130 credit units.
- complete 9 units of Required Courses.
- complete 41 units of Technical Electives for Physical Education.

Courses

Careers and Graduate Destinations
Graduates courses prepare students to become physical education teachers at middle schools or high schools, instructors at individual sports centers, and physical educators.

Faculty
Yong-Kyu Kim, Ph.D. Kyung Hee University, 1997, Professor, Principles of P.E, Basketball, kyk@khu.ac.kr
Eun-Chang Kwak, Ph.D. University of South Carolina, 1993, Professor, Teaching Methods in P.E, eckwak@khu.ac.kr
Kwang-Leong Han, Ph.D. Korea National Sports University, 2001, Associate Professor, Sport Sociology, foreverkhu@khu.ac.kr
What is Sports Medicine?
The objective of Sports Medicine is to create and disseminate knowledge about the causes and consequences of human movement including biological, physiological, biochemical, and chiropractic factors. Although human beings are the primary focus, comparative study of animal and mathematical models is embraced.

Sports Medicine at Kyung Hee
The program includes required and elective courses, laboratory research opportunities and out-of-class activities. Successful completion of the program can lead to careers in such diverse areas as athletic training, cardiac rehabilitation, worksite wellness, personal fitness training, performance evaluation and injury prevention. Students earn a BS in Sport Medicine which also provides preparation for continuing training in the allied medical profession.

Degree Requirements
To receive the Bachelor of Sports Medicine, a student must:
• complete a minimum of 130 credit units.
• complete 9 units of Required Courses.
• complete 41 units of Technical Electives for the major.

Courses
Human Anatomy, Sport Physiology, Sport Medicine, Exercise Prescription, Sport Psychology, Sport Sociology, Exercise Nutrition, Sports Chiropractic, Exercise Biochemistry, Rehabilitation and Medicine, Athletic Training, Cardiac Function and ECG, Sport Therapy, Advanced Exercise Physiology Laboratory, Exercise and Environmental Physiology, Physical Therapy, Sport Biochemistry, First-Aid Treatment and Cardio-Pulmonary Resuscitation, Hospice and Adapted Physical Education

Careers and Graduate Destinations
Graduates are employed as exercise prescriptors, etc.

Faculty
Oo-Sub Sun, Ph.D. Tsukuba University, 1998, Professor, Exercise Physiology, sunoos@khu.ac.kr
Hyon Park, Ph.D. University of Texas at Austin, 1995, Professor, Exercise Biochemistry, Exercise Nutrition, hpark@khu.ac.kr
Jae-Ho Khil, Ph.D. Palmer University, 1999, Associate Professor, Sport Medicine, Chiropractics, kkhil@khu.ac.kr
What is Golf Management?
The objective of the program is to prepare students for leadership positions in golf and sport industries. A comprehensive program includes appropriate courses and practical experiences in golf. The program prepares students for a multitude of employment opportunities in the golf management profession.

Golf Management at Kyung Hee
The Golf Management major is designed to provide students with the opportunity to develop expertise in business management with an orientation toward the world of golf. The program of study consists of required and elective courses, as well as out-of-class activities. As golf has evolved into an attractive part of the Korean culture, the operations of golf programs have become more sophisticated and complex. People assigned the responsibility for the management of golf programs and facilities must become familiar with the intricacies of golf and sport activities and also be effective as business professionals.

Degree Requirements
To receive the Bachelor of Golf Management, a student must:
- complete a minimum of 130 credit units.
- complete 9 units of Required Courses.
- complete 41 units of Technical Electives for the major.

Courses

Careers and Graduate Destinations
Graduates are employed in management which is concerned with golf, and as professional golf players, and administrators at country club.

Faculty
Young-Jin Park, Ph.D. University of Minnesota, 1989, Professor, Biomechanics, Evaluation of Golf Technique, yjpark@khu.ac.kr
Jeoung-Hak Lee, Ph.D. University of Minnesota, 2000, Associate Professor, Sport Marketing, Sport Industry, leex0472@khu.ac.kr
Jae-Kwan Jang, M.A. California State University of Long Beach, 1990, Associate Professor, Golf-Mental, jchanggolf@yahoo.co.kr
What is Coaching?
The Coaching Studies major provides students with a comprehensive understanding of the scientific and social foundations of movement and its cultural forms of sports, games, and exercise. A strong emphasis on the anatomy, physiology, psychology and sociology of sports supports the major’s framework. The major offers students the opportunity to prepare for licensure for entry-level positions in coaching; teacher of physical education; and for graduate study in sports studies, sport management, and teacher preparation.

Coaching at Kyung Hee
The program provides students cutting edge information and practical experience to pursue a professional career in coaching. Students will be able to garner the latest in techniques from a number of dynamic coaching educators in specific academic areas including coaching methodology, sport psychology, sport sociology, exercise physiology, sport counseling, sport massage, sport industry, and the administration of sport programs.

Degree Requirements
To receive the Bachelor of Coaching, a student must:
- complete a minimum of 130 credit units.
- complete 9 units of Required Courses.
- complete 41 units of Technical Electives for coaching.

Courses
Sport Psychology, Scientific Basis of Training, Sport Sociology, and Theory of Coaching. Elective courses for major include Sport Counseling, Sport Massage, Exercise Physiology, Leisure & Recreation, Sport Industry, Chiropractics, Adult Disease and Sports, Sport Leadership Theory, and Leisure Program Design. Practice in major, taekwondo, swimming, judo, swordsmanship, handball, basketball, practical use of the computer, techniques of bodyguarding, sport taping, badminton, table tennis, gymnastics, track and field, recreation practicum, tennis, ssirum, baseball, dance sport, field practicum, and rhythmic gymnastics.

Careers and Graduate Destinations
Graduates become athletes or coaches of sports.

Faculty
Jai-Choong Yoo, Ph.D. Sungkyunkwan University, 2000, Professor, Sport Sociology, Handball, choong0415@hanmail.net
Byung-Gwan Cheon, Ph.D. Hanyang University, 1997, Professor, Sport Psychology, Judo, bkjeon@khu.ac.kr
Shin-Eon Lee, Ph.D. Chung-Ang University, 2003, Associate Professor, Training, shineon77@khu.ac.kr
Jae-Kyun Ryu, Ph.D. Korea National Sports University, 2003, Associate Professor, Athletic Sports, ryu69kor@khu.ac.kr
Hong-Chul Yeo, Ph.D. Korea National Sports University, 2003, Associate Professor, Gymnastics, yeo@khu.ac.kr
Kyung-Rok Oh, Ph.D. Kyonggi University, 2003, Assistant Professor, Coaching, ohkr0103@khu.ac.kr
What is Taekwondo?
The department’s major function is to prepare students for professional career in Taekwondo (TKD), to teach theory and practice of TKD, and to establish a scholarly system by scientific background in theory. The department also trains competent leaders of TKD so that it will be known in every corner of the world. The department attempts to develop the students’ techniques, personal attitudes, responsibilities, and ethical standards. Its program, therefore, includes both activities and theories to foster attitudes of critical observation and judgment with the necessary technical knowledge and specialized skills.

Taekwondo at Kyung Hee
The TKD major gives students the opportunity to develop their talents, creativity, and skills, study TKD in depth, and prepare for a career in TKD or a related field. The curriculum prepares students for graduate programs in TKD and physical education, and other related fields. Students may wish to combine TKD in a double major with sports science as further preparation for a career in TKD/movement therapy. They may also wish to take courses in management and economics to prepare for a career as an art administrator, independent consultant, or small business owner. Fieldwork and internships provide students with the opportunity to work closely with a TKD professional, community project, or established TKD institution.

Degree Requirements
To receive the Bachelor of Taekwondo, a student must:
• complete a minimum of 130 credit units.
• complete 9 units of Required Courses.
• complete 41 units of Technical Electives for the Department.

Courses

Careers and Graduate Destinations
Graduates are employed as T.K.D director, player, physical education teacher, body guard, etc.

Faculty
Young-Ryul Choi, Ph.D. Kyonggi University, 2002, Professor, Competition Theory of Taekwondo, yrchoi@khu.ac.kr
Ik-Ki Jeon, Ph.D. University of New Mexico, 1996, Professor, Sport Management, ikjeon@khu.ac.kr
Jong-Kook Song, Ph.D. Katholieke Universiteit Leuven, 1996, Associate Professor, Growth & Aging, Taekwondo Program, jksong@khu.ac.kr
Jeong-Woo Jeon, Ph.D. Sungkyunkwan University, 2001, Associate Professor, Sport Sociology, Training Methods of Taekwondo, khu6267@hanmail.net
Sin-Ja Im, Ph.D. Sungkyunkwan University, 2004, Assistant Professor, Sport Psychology, Competition Theory of Taekwondo, imsj01@hanmail.net
Humanitas College (Global)
Goals of Liberal Arts Education at Humanitas College
“Better, more mature, and more useful humans.”
To ensure young people will advance into society as better, more mature, and more useful humans than when they begin their university studies - this is the essential goal of and reason for university education and the basic responsibility entrusted to universities by society.

Courses

<table>
<thead>
<tr>
<th>Classification</th>
<th>Course</th>
<th>Credits</th>
<th>Year to take</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core courses</td>
<td>Human Quest for Values</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 1st semester of the 1st year</td>
</tr>
<tr>
<td>(Civilizations in a Global Context I, II)</td>
<td>The World We Live In</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 2nd semester of the 1st year</td>
</tr>
<tr>
<td></td>
<td>Sub total</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required fundamentals</td>
<td>Writing 1</td>
<td>2</td>
<td>1st year</td>
<td>Compulsory in the 1st year (Two credits, three hours)</td>
</tr>
<tr>
<td>- Basic skills (Writing, English)</td>
<td>Writing 2</td>
<td>2</td>
<td>2nd year</td>
<td>Compulsory in the 2nd year (Two credits, three hours)</td>
</tr>
<tr>
<td>- Civic education</td>
<td>English 1</td>
<td>2</td>
<td>1st year</td>
<td>Compulsory in the 1st year (Two credits, three hours)</td>
</tr>
<tr>
<td></td>
<td>English 2</td>
<td>2</td>
<td>1st or 2nd year</td>
<td>Compulsory in the 1st or 2nd year (Two credits, three hours)</td>
</tr>
<tr>
<td></td>
<td>Civic education</td>
<td>3</td>
<td>1st year</td>
<td>Compulsory in the 1st year (theoretical class + Community service)</td>
</tr>
<tr>
<td></td>
<td>Sub total</td>
<td>11 or more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
“Major-related liberal arts,” which had been part of the liberal arts education program until 2010, is to be changed to “basics for the major” and run as part of the major program of the appropriate college or department starting in 2011. The basic structure of liberal arts education courses no longer indicates courses under the previous major-related liberal arts classification.

***Faculty***

Dong-Hyun Huh, Ph.D. Korea University, 1994, Professor, Korean Modern History, huhdh@khu.ac.kr

Min-Geon Kim, Ph.D. University of Iowa, 1994, Associate Professor, Political Communication, msngk@khu.ac.kr

Jae-Hyeong Bae, Ph.D. ChungNam National University, Associate Professor, Functional Analysis/Operator Theory, jhbae@khu.ac.kr

Soo-Hee Baek, Ph.D. Soongsil University, 2010, Associate Professor, Media-art, sbaek100@khu.ac.kr

Hye-Ran Lee, Ph.D. University of Florida, 1997, Associate Professor, Linguistics, lhyeran@khu.ac.kr

Byung-Noh Lim, Ph.D. Indiana University, Associate Professor, Educational Technology, byunlim@khu.ac.kr

Hun Kuk, Ph.D. Okayama University, 1996, Assistant Professor, Applied Mathematics, kuk@khu.ac.kr

Sophia Shin, Ph.D. University of Toronto, 2000, Assistant Professor, Religion Culture, eshin@khu.ac.kr

Yang-Hee Shim, Ph.D. University of Wisconsin, Madison, 1989, Assistant Professor, Linguistics, yshimjoo@khu.ac.kr

Il-Whan Oh, Ph.D. Nankai University, 1997, Assistant Professor, History, ohik@khu.ac.kr

Dae-Ho Lee, Ph.D. Kyung Hee University, 2005, Assistant Professor, Electronic Engineering, nize@khu.ac.kr

Seung-Gwan Lee, Ph.D. Kyung Hee University, 2004, Assistant Professor, Artificial Intelligence, leeysg@khu.ac.kr

Jun-Tae Lee, Ph.D. Kyung Hee University, 1999, Assistant Professor, Chinese history, jtlee@khu.ac.kr

Yun-Hee Choi, Ph.D. Korea University, 2001, Assistant Professor, Korean Language and Literature, yhch@khu.ac.kr

Jin-Hyuk Choi, Ph.D. Kyung Hee University, Assistant Professor, Differential Geometry, jinhchoi@khu.ac.kr

Roger Thompson, M.A. Daithousie University, 1994, Assistant Professor, Politics, cp107argus@gmail.com

Stephanie Eun-Kyung Rhee, M.A. Hankuk University of Foreign Studies, 1984, Assistant Professor, Interpretation, ekchung@khu.ac.kr

Joong-Hwan Jeon, Ph.D. University of Texas at Austin, 2007, Full-time Lecturer, Evolution Psychology, evopsy@gmail.com
Craig Rueter, M.A. Yongin University, 2006, Full-time Lecturer, Physical Education, crueter@khu.ac.kr
Armando Daniel Bazan, Southern Methodist University, 1997, Full-time Lecturer, English Language and Literature, bazanteacher@gmail.com
Michael Dwaine Neyland Jr., M.A. Framingham State College, 2007, Full-time Lecturer, Education, dwaineyland@yahoo.com
Sebastien Muncaster, M.A. McGill University, 2001, Full-time Lecturer, Politics, smunca@yahoo.com
The School of East-West Medical Science

Department

East-West Medical Science
What is East-West Medical Science?
The field of medical science has been increasingly recognized as a key interdisciplinary science between clinics in hospitals and natural science. Although biological science belongs to this category, however, its role is somewhat biased to investigation of basic phenomena for life. In contrast, medical science is oriented to application of the discoveries in biological science to medical problems. Therefore, it is so important to educate the students to execute excellent performance in the medical science, which is the primary aim of the School of East-West Medical Science.

East-West Medical Science at Kyung Hee
At February 2008, the School of East-West Medical Science has been started as an independent division in College of Liberal Arts. Its uniqueness, an independent division in a college, is maintained currently and will be continued. The school has department of East-West Medical Science and its maximum accommodation per year is usually 60 students where the half is admitted at the entrance to the university and the other half is accepted from the students in the School of Exploratory Major in College of Liberal Arts at the end of the first fall semester. The aim of the school is to educate the students for medical doctor or for Ph.D. in researches in medical science fields. The students are required to attend to classes composed of chemistry, physics, biology, anatomy and physiology and encouraged to take many credits for the related classes. And Kyung Hee accreditation must be fulfilled for a student to graduate for Bachelor of Science (BS).

Degree Requirements
The followings are required for achievement of a BS degree
- An average grade in the undergraduate school, which must be 1.70 or more.
- Acquisition of more than 140 credits including the general studies program required by the university: Required Basic Courses: 18 credits; Required Core Courses: 36 credits; Elective Courses: 47 credits.
- A score better than the 3rd grade of a state-certified Han-ja test.
- A better score than the suggested guidelines in English proficiency tests. The suggested guidelines are 720 or above for TOEIC score, 220 or above for TOEFLCBT score, 85 or above for TOEFL IBT, and 610 or above for TEPS.

Courses
Year 1
Physics and Laboratory 1 and 2, Chemistry and Laboratory 1 and 2, College Algebras, Statistics, Introduction to East-West Medical Science
Year 2
Organic Chemistry 1 and 2, Biology 1 and 2, Medical English 1 and 2, Orient Medical Classics 1 and 2, History of Philosophy in Life Science, Biology and Laboratory, Biochemistry, Biochemistry and Laboratory
Year 3
Advanced Biology, Molecular Biology, Molecular Biology and Laboratory, Anatomy 1 and 2, Linguistic Reasoning 1
and 2, Microbiology, Cellular Biology, Physiology, Genetics, Research of Medical Science 1
Year 4
Immunology, Neuroscience, Nutrition, Research of Medical Science 2–5, Understanding of Medicine, Dentistry and Orient Medicine, Thesis, Introduction to Biotechnology, Introduction to Biomedical Engineering, Nano-Life Science, Developmental Biology

Careers and Graduate Destinations
The students are encouraged to continue their studies in graduate schools of medicine or life science to be clinical doctors or doctoral researchers in the fields of medical science.

Faculty
Nak-Won Sohn, O.M.D., Ph.D. Kyung Hee University, 1990, Professor, Neuroanatomy, sohnmw@khu.ac.kr
Chul-Hun Kang, Ph.D. Iowa State University, 1995, Associate Professor, Biochemistry, kangch@khu.ac.kr
Eun-Joo Hwang, Ph.D. Ohio State University, 1997, Associate Professor, Molecular Cell Biology, ehwhang@khu.ac.kr
Ji-Ho Park, Ph.D. Leeds University, 1994, Associate Professor, Neuro Physiology, jihopark@khu.ac.kr
Sun-Yeou Kim, Ph.D. Seoul National University, 1996, Associate Professor, Pharmacy, sunnykim@khu.ac.kr
Joung-Woo Hong, Ph.D. The Ohio State University, 2004, Assistant Professor, Molecular Biology and Biochemistry, jwhong46@khu.ac.kr
Tae-Woo Kim, Ph.D. Seoul National University, 2001, Assistant Professor, Organic Chemistry, tw1275@khu.ac.kr
Hee Kang, O.M.D., Ph.D. Kyung Hee University, 2005, Full-time Lecturer, Oriental Pathology, shehee@khu.ac.kr
Admission & Campus Life
Admission & Campus Life

Admissions

Graduate Admission
The applicant for admission to the Master’s degree program must be a graduate, or in the process of completing graduation requirements, of an accredited four-year university or college. The applicant for admission to the doctoral program must have a Master’s degree.

Undergraduate Admission
Foreigners whose parents have foreign nationality (both mother and father), and who have completed a regular school education of more than 12 years from elementary to high school are eligible for admission. Please contact the Center for International Students and Scholars (CISS) for detailed admission information if you are eligible for this requirement.

Seoul Campus
Tel: +82 2 961 9286  Fax: +82 2 961 2230  E-mail: ciss@khu.ac.kr  Website: http://oiak.khu.ac.kr

Global Campus
Tel: +82 31 201 3177~8  Fax: +82 31 201 3179  E-mail: intlctr@khu.ac.kr  Website: http://oiak.khu.ac.kr

Other applicants who have completed a regular school education of more than 12 years from elementary to high school are needed to contact the Admission Office for further information.

Admission Office
Tel: +82 2 961 0028~9 / +82 31 201 3300  Fax: +82 2 961 0049 / +82 31 204 8105  
E-mail: khsa0035@khu.ac.kr / khwa5034@khu.ac.kr  Website: http://iphak.khu.ac.kr
International Programs

Exchange Program
Tel: +82 2 961 0031    Fax: +82 2 962 4343    E-mail: oia_sc@khu.ac.kr

Since its inception, Kyung Hee University has endeavored to advance the cause of peace and mutual understanding through excellence in education and international perspective. In 1984, the “Committee for and Office of International Exchanges,” now the Office of International Affairs (OIA), was established to promote an international education exchange program for students and faculty members, as well as to coordinate various other international activities at Kyung Hee. The activities of OIA include financial support programs for faculty members for their research abroad, student exchange programs, language programs, cultural exchange programs with sister universities, and support for international conferences and activities at KHU.

Through the student exchange program, initiated in 1991, more than 290 students have had the opportunity to study at sister universities of Kyung Hee with exchangeable credit. The universities with which Kyung Hee maintains exchange agreements include the University of North Carolina at Wilmington (U.S.A.), the University of New South Wales (Australia), Nihon University (Japan), Moscow State University (Russia), and Southeast University (P.R. China) among many others. During vacations, OIA sends student groups for Language Training Programs at our sister campuses.

A large number of students and faculty members from sister universities have also visited Kyung Hee to participate in credit exchange programs as well as other activities such as short term educational and cultural programs. Delegates from Ball State University, Northern Illinois University, Pittsburg State University (U.S.A.), Southeast University (P.R. China), Soka University, Hokuriku University, and Ritsumeikan University (Japan) visit Kyung Hee annually for our short-term international programs, which include cultural activities, special lectures on various topics, and sightseeing. OIA also provides custom-made short-term programs for delegations from sister campuses, which cater to each group’s unique area of interest and need.

The International Medical Service program was initiated in 1982 in order to provide medical care to people in developing countries. The medical service team from the Kyung Hee Medical Center has performed medical services with university affiliated medical institutes in Thailand (1982), Indonesia (1984), Sudan (1992), Mongolia (1993), and Kazakhstan (1995).

Kyung Hee has also hosted an international conference since 1982 commemorating the U.N.’s declaration of the International Day of Peace. Furthermore, Kyung Hee has hosted several international conferences, including the World Youth Leaders Conference (May, 1995), the Continental Cup International University Women’s Golf Tournament (October, 1997), the International Executive Vice Presidents Conference (June, 1998), and the 8th Forum of the AUAP (Association of University of Asia and the Pacific) in April of 1999.

Kyung Hee University currently maintains sister relationships with 402 universities in 68 countries (as of February 2011) around the world.

Korean Language Program
Tel: +82 2 961 0081-2    Fax: +82 2 959 9018    E-mail: iie@khu.ac.kr    Website: http://www.iie.ac.kr

The IIE (Institute of International Education) of Kyung Hee is a specialized language and culture teaching institute which has one of the best group of instructors and newest facilities in Korea.

In 1993, the IIE initiated its Korean Language Programs and was selected as an official institute for teaching Korean to foreign students. These students came to study in Korea on an invitational scholarship offered by our government since 1996. Every year about 1,200 people from over 50 different countries attend the IIE.

Our school helps foreign students become accustomed nationally to both a different language and life style. Furthermore,
through the provision of a “volunteer system” our foreign students are provided better opportunities to adjust comfortably with the help of 1:1 Korean volunteers.

The Regular Program is a 16-week semester program with 15~21 class hours per week. The Korean Language education course aims to fulfill international students’ interest in the Korean Language as well as in the culture. So, for students who want to learn Korean Culture, this program includes Elective Course as follows: Korean Movie, Chinese Characters, Korean Music and Taekwondo.

In addition, the department of the foreign studies has Conversation course, Advanced-level English course and teacher training courses for people who want to have competitiveness for the globalized world.

**International Studies of Oriental Medicine (ISOM)**

Tel: +82 2 966 0535 Fax: +82 2 961 9157 E-mail: isomi@khu.ac.kr Website: http://isom.khu.ac.kr

Kyung Hee University’s College of Oriental Medicine is considered by the Korean Government and Koreans in general as the best of its kind in the field of Oriental or Traditional Medicine. Originally founded to both study and bring legitimacy and serious attention to Oriental Medicine, the College has achieved enormous international acclaim in establishing an integrated medicine (Third Medicine).

These efforts brought the establishment of The International Studies of Oriental Medicine (ISOM) in 1998. ISOM has implemented a “Special Residency” program for qualified licensed acupuncturists. Acupuncturists can choose a department to study in for up to one month. This offers a unique opportunity for individual internships with doctors within a person’s field of interest. Official certification is provided.

**International Taekwondo Academy**

Tel: +82 31 201 2708~9 Fax: +82 31 204 8117 E-mail: jksong@khu.ac.kr Website: http://www.khuita.org

Kyung Hee University’s Department of Taekwondo is one of the oldest and finest programs in the world. The department offers a 4-year Bachelors degree. Graduates leave with a 4th degree black belt and referee certification, fully prepared for a career in Taekwondo.

The academy offers a three-week training program in January and July with 30~35 class hours a week at skill levels ranging from beginner to instructor. Tuition includes supplies, housing, meals and field trips.

The main objectives of the International Taekwondo Academy are to encourage students and professionals everywhere in the field of Taekwondo, to create an increased awareness and active participation in globalizing Taekwondo and to promote a Taekwondo culture steeped in martial arts philosophy.

Kyung Hee University has always been a pioneer in the field of Taekwondo, playing a leadership role in upgrading its national standards. Having had a successful Taekwondo team since 1960, the university opened Korea’s first full-time Taekwondo Department in 1983, since then it has enjoyed success after success. A glance at the university’s honors is impressive: Kyung Hee graduates have competed in 120 international championships, bringing home 77 gold, 16 silver and 15 bronze medals.

**Global Collaborative Summer Program (GC)**

Seoul Campus Tel: +82 2 961 0031 Fax: +82 2 962 4343 E-mail: summer@khu.ac.kr

Global Campus Tel: +82 31 201 3177~8 Fax: +82 31 201 3179 E-mail: oia_gc@khu.ac.kr

Website: http://gc.khu.ac.kr

The Global Collaborative summer program is joined by East Asia’s finest universities; Peking University in China, Ritsumeikan University in Japan, Moscow State University in Russia as well as the United Nation’s Department of Economics and Social Affairs and Conference of NGOs (CoNGO).

An extension of the Penn-Kyung Hee Collaborative Summer program, a joint initiative of Kyung Hee University and University of Pennsylvania, launched in 2006, the Global Collaborative strives to promote a better understanding of the East Asian region and the world, in tandem with the current quests for “multiculturalism” and “global trust.” It also aims to provide a new paradigm for higher education by integrating education, research, and practice.

Through high-quality research, education and diverse modules on “Global Governance and East Asian Civilization” and on “Sustainable Development towards a green planet,” we hope this program will present an opportunity for students around the world to come together for a better understanding of each other. We also wish all the participants can explore
the common norms, tasks, and goals for the future of global society in the 21st century. The courses are centered on “Global Governance and East Asian Civilization” (Seoul Campus) and on “Sustainable Development towards a Green planet” (Global Campus). With the exception of the Korean Language and Culture course, all courses are taught in English. The program offers four-week intensive courses. Each course is 48 hours long and worth 3 credits. Classes are in session from Monday through Thursday and students may register for a maximum of 2 courses.

Kyung Hee International College of International Studies (KIC)
Tel : +82 31 201 2280 Fax : +82 31 204 8113 E-mail : kic@khu.ac.kr Website :http://kic.khu.ac.kr
International Studies is a relatively new field of studies which goes beyond the traditional division of academic fields. It is a truly inter-disciplinary major composed of International Relations, International Economics, Global Business, Global Area Studies, and Korean Studies. International Studies is also not just a simple juxtaposition of the traditional fields of Social Sciences and Humanities. It combines them into a new academic subject, effectively different from its composing subfields. It also means that students of International Studies are guided to view the world from a very creative perspective. This new field of studies is a response to the newly globalized world we are now living in. Globalization requires college graduates to be equipped with new perspectives and creative knowledge. The School of International Studies is aiming at educating young collegiate students in order to meet these new challenges in this era of globalization, and at the same time producing competent young leaders of the world.

Established in 2005, the School of International Studies at Kyung Hee University is a leader in this academic field in Korea and aims to become one of the premier schools of International Studies in the world. The School is the successor of the School of International and Area Studies and the Department of International Relations (which had been around since 1992) before they were transformed into the current school. The School of International Studies is proud of its distinguished faculty members, the nation’s top 10 percent student body, its many curricular and extracurricular programs, and diverse financial aid and exchange student programs. The curriculum is made up of five modules: International Relations, International Economy, Global Business, Global Area Studies, and Korean studies. All classes are conducted in English. The School has been actively pursuing internationalization of its programs and operations through building global partnership networks, recruiting distinguished international faculty members, and excellent international students.

Department of Korean Language and Culture
Tel : +82 31 201 2239/2272 Fax : +82 31 204 8112 E-mail : cofla7@khu.ac.kr Website : http://korean.kyunghee.ac.kr/foreign/eng/department.html
The Korean Language Program is divided into two major areas: Korean linguistics and Korean language education. Korean linguistics includes the study of phonology, syntax, semantics, and pragmatics; Korean language Program trains students interested in the Korean language to have the qualifications to teach Korean to foreigners. The Korean Culture Program is composed of courses designed to expose students to Korean culture.

Graduate School of Pan-Pacific International Studies (GSP)
Tel : +82 31 201 2146~9 Fax : +82 31 204 8120 E-mail : kwhb7200@khu.ac.kr Website : http://gsp.khu.ac.kr
The Graduate Institute of Peace Studies was established with the vision of creating a world filled with more justice, peace, and security in the 21st century. The institute’s program is intended for students who want to pursue an academic, government or political career that requires an understanding of the changing national and international dynamics on a daily basis.

A Uniquely Diverse Community
The international emphasis of GSP is an integral part of its culture. Students in our programs come from more than 25 countries every year. Therefore, students from a variety of ethnic backgrounds and religious affiliations are an important part of GSP’s diversity. Many of the faculty members have extensive international experience and contacts. The impact of this international diversity on the GSP program is enormous, adding varied perspectives to classroom discussions, team projects, and everyday interactions.
Education in English
In this age of globalization, it is necessary to have a good command of English. GSP provides students with the opportunity to complete their entire course work in English. This means that students are required to attend and participate in lectures and seminars conducted in English, and also must deliver class presentations, submit term papers and take exams entirely in this medium.

A Foundation for Global Leadership
GSP helps students to improve their knowledge and skills to international standards. Students learn both the theory and practice of economics and business, international politics, and global issues around the world. New leadership for the 21st century requires creative problem solving, and a depth of understanding of the global agenda. A rich resource of international, academic, and policy experiences, the GSP faculty prepares students for these leadership requirements. GSP provides an opportunity for academic study and language immersion in other parts of the world. One such way that GSP students may gain this valuable international experience is through exchange programs with more than 250 universities and affiliated institutes around the world. GSP has also established its own ties with the world’s leading institutions in international studies in addition to the university-wide exchange programs. They include the University Catholique de Louvain (Belgium), University of Castilla-La Mancha University (Spain), University of Adolfo Ibanez (Chile), University of Autonoma Guadalajara (Mexico), University of Akron (U.S.A.), National University of La Plata (Argentina), and Renmin University (China).

Graduate Studies at the College of Electronics and Information
Tel: +82 31 201 2135~6  Fax: +82 31 204 8118  Website: http://web.kyunghee.ac.kr/~eng_eni
The College of Electronics and Information consists of nine major fields: Electronic Engineering, Computer Engineering, Radio Communication Engineering, Information and Communication, Opto-electronics, Mathematics and Applied Mathematics, Physics and Applied Physics, Astronomy and Space Science, and Biomedical Engineering. Today, the total number of freshmen entering each year is 460, making it the largest college on the Suwon campus.
Visa Application Process

This information has been excerpted from the Web Site of Immigration Bureau at http://www.immigration.go.kr/indeximmeng.html. Please visit its Web site for more information.

It is extremely important for you to pay close attention to your non-immigrant visa status and maintain contact with the Office of International Affairs (OIA). You should be aware of the restrictions imposed upon you by your particular visa status. The staff of CISS will assist you with most aspects of your immigration status. Please do not hesitate to contact CISS should you have any questions regarding your immigration status.

Foreigner Registration

Those wishing to stay in Korea for more than 90 days are required to register at a local Immigration office having the jurisdiction over the place of stay within 90 days from the date of entry.
※ Those who fail to register within 90 days are subject to penalty.

To register, students/faculty should make an application to the local or district Immigration office in person.

Document requirements are as follows:

- Application forms
- Passport
- Two color photos (3cm x 4cm)
- Certificate of enrollment or certificate of studentship
- Application Fee: KRW 10,000

If your application is accepted, the Immigration officer in charge will stamp your passport and issue a certificate of alien registration to you. It usually takes three or four days for the applicant to get the certificate of alien registration.

Extension of Stay in Korea

Those wishing to stay longer than the period of stay given are required to apply for permission at a local or district Immigration office before the period of stay expires.
※ Overstays are subject to penalty.

Applications to extend the period of stay are accepted only when the period of stay given expires within two months of the application. The only exception to this rule is a temporarily leave from Korea on business. In this case, an earlier application may be made. To apply for permission, make an application to a local or district Immigration Office having jurisdiction over the place of stay in person.

The required documents are as follows:

- Passport
- Foreigner registration card, if applicable
- Application forms
- Certificate of enrollment
- Receipt of tuition
- Application Fee: KRW 30,000

If the application is accepted, the Immigration officer in charge will stamp the applicant’s passport and record the amendments on the back of the applicant’s Alien Registration Card.

Please visit http://www.immigration.go.kr/indeximmeng.html for more information.

[Suwon Office] Phone: +82-31-278-3311~5
Part time employment permission (S-3) of Study Abroad (D-2)
According to the Immigration Law of Korea, those who have been studied at least one semester can change their status from Study Abroad (D-2) or add up their period from both statuses to one semester.
Allowed time and workplace: Up to 20 hours per week during school terms. (Unlimited hours during weekends, holidays, vacations)
Limited to 2 workplaces total
• Re-entry
  The registered foreigners wish to re-enter Korea after visiting their native country or travelling abroad are required to visit the immigration office and request your application.
  Fee: Single KRW 30,000 / Multiple KRW 50,000
  Re-entry permit application must be filed at least 3 working days before your departure date.

The way to get Seoul Immigration Office Sejongno Branch
• Address: SK Hub Building. 2F, 89-4, Gyeongundong, Jongno-gu, Seoul
• Phone Number: +82-2-732-6214
• Fax Number: +82-2-732-6217
• Direction (from Kyung Hee University)
  • By subway
    Take the shuttle bus number 01 at the bus stop in front of Kyung Hee University’s main gate and get off Heogi Station (翁岐驛). It takes normally 5~7 minutes. From Heogi Station, take No.1 line (1호선) and get off at Jongno-3ga (종로3가) and transfer to No.3 line (3호선) and get off Anguk Station (安國駅). This part of journey will take approximately 20 minutes. Exit from Gate No.6 and go straight for less than 1 minute, you can find SK Hub building after passing Jongno Police Station (종로경찰서). Seoul Immigration Office Sejongno Branch office is located on the 2nd floor.

What to know
If you want to save your time, it is better to make a visit reservation from the online. For more information, visit website http://www.hikorea.go.kr/pt/index.html
Information Center for Foreigners in Korea

If you have any inquiries regarding visas, statuses of stay in Korea or even about reporting crimes, simply dial 1345. A multi-lingual consultant will be on call to answer any questions you may have. There is also a ARS (Automated Response Service) available. For more specific inquiries, simply press one of the following when prompted to.

Press 1: Location and business hours of Immigration offices
Press 2: Check the status of your Visa application
Press 3: Report of foreigner employer’s resignation
Press 0: Connect to a consultant directly

This hotline is available from 9:00~18:00 during weekdays only.
If you want to connect from overseas, dial +82+1345.

• How to select a preferred language

![User Guide Image]
Admission & Campus Life

Facilities

Library
The university’s central library located in the center of the campus, is a five storied stone building with an artistic scenic view, and its interior being decorated with marble. With a collection of some 1,600,000 volumes, a journal and periodical root with some 35,000 titles with a wide range of domestic and foreign electronic journals, a CD-ROM room holding some 14,000 disks, an open-end information room with some 110,000 books for students assignments and studies, a dissertation room with 200,000 volumes, and a computer services room with 60 sets equipped with highest quality computers and 10 sets for PC notebook users. Also the library has auxiliary facilities such as lounges with computers and free reading books and journals for students’ cultivation, audio-visual theater with 500 seats for seminars and conferences, a large resting room, with foods and drinks, a book building room, and a book reproduction room, etc.

Housing

- Woojungwon Dormitory
  Kyung Hee University has renovated its older dormitories and has built new ones in an effort to provide a better educational environment for students. Woojungwon, built in September 1998, is a dormitory complex with residence and business area that can accommodate about 2,000 people. Each unit is furnished with a shower room, beds, desks, cabinets, and a phone. Each room is supplied with a LAN cable to provide access to the Internet and e-mail.

Fee per semester (Spring Semester, 2011, Single room)
- Semester Fee (4 months): KRW 1,654,000
- Deposit (Refundable): KRW 100,000
- Total: 1,754,000

Fee per semester (Spring Semester, 2011, Double room)
- Semester Fee (4 months): KRW 1,112,000
- Deposit (Refundable): KRW 100,000
- Student Fee: KRW 10,000
- Meal coupon (90 meals per semester): KRW 225,000
- Total: 1,540,000

Fee per semester (Spring Semester, 2011, Triple room)
- Semester Fee (4 months): KRW 811,000
- Deposit (Refundable): KRW 100,000
- Student Fee: KRW 10,000
- Meal coupon (90 meals per semester): KRW 243,000
- Total: 1,164,000

Period of Stay
- 1st Semester (March intake): From Feb 27 ~ June 20
- 2nd Semester (September intake): From Aug 30 ~ Dec 20
- During the vacation, it also opens with extra fee.

Woojungwon Office
- Tel: +82 31 201 5125, +82 31 201 3640
- Fax: +82 31 201 5111
2nd Dormitory
The 2nd Dormitory opened in March 2008 with the most up-to-date equipment and facilities required in the age of internationalization, information, technology and globalization. It consists of two buildings, Building A for female students and Building B for male students. 2nd Dormitory can accommodate about 2,192 students in total (male students 1,238, female students 954). The room will be shared by two students, and each room is furnished with beds, desks and cabinets. Also each room comes with a private shower/lavatory room, a phone, wired LAN and air-conditioner. Student cafeteria and various facilities such as a coffee shop, convenience store, stationery, internet café, etc. are located on the first floor of Building A, and any students can use these.

Fee per semester
- One Semester (about 4 months) Fee for a Double Room: KRW 1,190,000
- Deposit: KRW 100,000
- Meal Plan: KRW 243,000 (90 meals per semester/optional)

Period of Stay
- 1st Semester (March intake): From Feb 27 (Mon) - June 20 (Tue)
- 2nd Semester (September intake): From Aug 30 (Wed) - Dec 20 (Wed)
- During the vacation, it also opens with extra fee (except one year resident).

2nd Dormitory Office
- Tel: +82 070 7877 8010~2, +82 031 201 3638
- Fax: +82 070 7877 8000
- E-mail: dorm2@khu.ac.kr
- Website: http://dorm2.khu.ac.kr

Sameuiwon Dormitory
Located on the Seoul campus, Sameuiwon is a dormitory complex that can accommodate 392 students including international students. It is most convenient as it is located right next to the Kyung Hee Kindergarten that is part of the campus. With newly renovated structures, the rooms are equipped with beds, desks, cabinets, air conditioner, LAN and phone for the comfort of students. Generally a room is shared by 4 students.

Period of Stay
- 1st Semester (March intake): From March 1 ~ June 30
- 2nd Semester (September intake): From September 1 ~ December 31
- During vacation, the dormitory is available at extra cost.

Fee per semester (Spring Semester, 2011)
- Monthly Fee KRW 100,000 x 4 months = KRW 400,000
- Deposit (Refundable): KRW 20,000
- Student Fee: KRW 10,000
- Meal Plan/4 months (2 meals per day is mandatory)
  - 70 meals: KRW 934,000
  - 60 meals: KRW 862,000
  - 50 meals: KRW 790,000

Sameuiwon Office
- Tel: +82 2 961 0505
- Fax: +82 2 959 1584
- E-mail: khsd3140@khu.ac.kr
- Website: http://sameuiwon.khu.ac.kr (only in Korean)

Sewha Hall Dormitory
Partially funded by the Korean government, this new residential hall opened in March 2005 with the most up-to-date
facilities. A room with a toilet and washbasin is shared by two students. It can accommodate 432 students in total.

Fee per semester (Spring Semester, 2011)

- Monthly Fee KRW 200,000 x 4 months = KRW 800,000
- Deposit (Refundable): KRW 20,000
- Student Fee: KRW 10,000
- A meal plan is not mandatory because a student cafeteria is very near the Sewha Hall Dormitory. Students at Sewha Hall can also purchase a meal plan from Sameuiwon at the same price.

Period of Stay

- 1st Semester (March intake): From March 1 ~ June 30
- 2nd Semester (September intake): From September 1 ~ December 31
- During vacation, the dormitory is available at extra cost.

Sewha Hall Office

- Tel: +82 2 961 9476
- Fax: +82 2 961 9479
- E-mail: khsd9476@khu.ac.kr
- Website: http://sewhahall.khu.ac.kr (only in Korean)

Off Campus Housing (I-House I, II, III & IV)

Kyung Hee University provides accommodation for international students at four I-houses. These dormitories provide students with a safe, friendly environment to study and socialize.

The dormitories were opened in August 2008 and are equipped with up to date facilities. There are 83 rooms in each I-house, housing two students per room. Each building houses 160 international students and two dormitory managers. The rooms are furnished with a sink, electric stove, washing machine, desk and chair, shoe and clothing closet and bathroom. Each room also provides 24 hour internet access. There is a water fountain located in the hallway.

One semester (4 months) costs KRW 1,010,000 ~ KRW 1,250,000.
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