Department of Chemistry

051-200-7240 http://chem.donga.ac.kr

Introduction of the Department

With the recent advances in technology, there is a growing need for technologies to precisely measure and manipulate materials in molecular and atomic units in the industry. Therefore, chemistry is a key basic discipline of the nano / bio / information technology of the 21st century. Graduates are going into the filed related to safe and new drug development or efficient component (material) development that is necessary for the industry.

Main Subject

Organic Chemistry, Physical Chemistry, Analytical Chemistry, Inorganic Chemistry, Analytical Chemistry Experiment, Organic Chemistry Experiment, Physics Chemistry Experiment, Biochemistry, Inorganic Chemistry Experiment, Biochemistry Experiment

Career after Graduation

National and public research institutes or industrial research institutes, pharmaceutical companies and biotechnology companies, heavy chemical industry and petrochemical industry, analytical equipment, manufacturing and trading industry, polymer chemistry industry

Q&A

Q. Is there any difficulty in employment or career after majoring in chemistry as a pure basic science?

Chemistry is academically central to pure basic science. It also means that related fields are diverse. Therefore, there are many opportunities for chemists to advance into diverse fields as well as unique fields of chemistry related industries. The development of the future industry requires the development of new materials through existing materials, so the role of chemical engineers will become more important in future society.

Specialty Program

On-the-job training: On-the-job training for second year students

Laboratory interns, local middle and high school chemistry creative activities, science reading clubs, student creative research programs, short-term exchange student programs with Japanese universities

Department of Life Science

051-200-7260 http://biology.donga.ac.kr

Introduction of the Department

Recently, the mysteries of life have been revealed one by one through the dazzling molecular biology, genomics, and bioinformatics. Therefore, life science, which explores the mysteries of human beings and life, is emerging as a science leading the 21st century. The future of life sciences major is very bright because it develops the vast knowledge gained from the life exploration into the cutting edge science and technology for the health and welfare of mankind.

Main Subject

General Mathematics, Chemistry and Experiment I, Chemistry and Experiment II, Introduction to Physics, Biology and Experiment I, Biology and Experiment II

Genetics, Cell Biology, Microbiology, Molecular Biology, Biochemistry, Animal Physiology

Career after Graduation

1. National and public research institutes: A professional researcher at the national and public research institutes such as Korea National Institute of Health, Ministry of Food and Drug Safety, Korea Research Institute of Bioscience & Biotechnology, Korea Research Institute of Standards and Science, Korea Institute of Radiological & Medical Sciences, The National Forensic Service, National Cancer Center

2. Employment to companies and medical institutions: product development, quality control, product sales of life sciences companies (such as pharmaceutical companies, food companies, and cosmetics companies), researchers of , hospitals and various medical institutions

Q&A

Q. What does the Department of Life Sciences teach?

Students begin to study major subjects from the second grade. Major subjects include theories and experiments related to biology such as genetics, cell biology, molecular biology, and microbiology.

Q. What is the difference between biotechnology and life sciences?

Although life sciences focuses on finding the principles of life phenomena and identifying the process of finding them, biotechnology focuses on the development of new technologies based on life sciences.

Specialty Program

1. Vision Camp: Every year in September, we visit the leading domestic life sciences laboratories such as the National Institute of Scientific Investigation, the Korea Biotechnology Research Institute, and the Korea Atomic Energy Research Institute.
2. Internship Program: Through an agreement with the Korea Research Institute for Bioscience and Biotechnology, the only institute in the field of life sciences in Korea, we provide internship programs during vacation to experience advanced research in a variety of life sciences and to determine career paths.
3. Specialized Program: Our department has a specialist training program for disease geneticists to provide a foundation for research on intractable diseases such as cancer, dementia and diabetes through the integration of cutting-edge science and technology with academic studies and omics fusion education. It is easy to advance into life sciences research institutes and pharmaceutical companies.