

# Chemistry Program

Bachelor of Science/Bachelor of Engineering



## Program Outline

The curriculum is designed to develop theoretical knowledge and experimental skills through interactive lectures, practical workshops, seminars and laboratories. Courses in the first three years include Basic Chemistry, Organic Chemistry, Inorganic Chemistry, Analytical Chemistry and Physical Chemistry, followed by advanced topics in Bio-organic Chemistry, Bio-inorganic Chemistry, Organometallic Chemistry, Solid State Chemistry, Quantum Chemistry, Material Chemistry, and Polymer Chemistry. In the final, fourth year, students join research groups to carry out laboratory research for their graduation theses.



## Career Prospects

The top-notch research environment, which has produced two recent Nobel laureates, empowers our graduates to become young global leaders in industry, government and academia and to be leading-edge specialists for future trends in chemical sciences. Graduates can find employment in manufacturing, chemical, pharmaceutical, and food industries, public institutions, etc. Many continue their education at graduate level.

## School of Science

Both teaching and research are focused on understanding nature at the atomic and molecular levels, and on using that understanding to explore the frontiers of science in Chemistry and many interdisciplinary fields. Students acquire a combination of general knowledge and advanced expertise, which is essential in both academia and industry.

## School of Engineering

It is the important perception of the curriculum at the School of Engineering to grasp fundamental chemistries and biotechnologies as well as their technical applications. Both, education and research, are focused on understanding natural phenomena in both, micro and macro levels of atomic and molecules and using the principle knowledge to explore the borders of science and engineering towards advanced chemistries and biotechnologies. Students learn a combination of broad knowledge and advanced expertise, which is essential for both academia and industry. In the department of chemistry biotechnology, students challenge advanced researches on the basis of the theoretical framework. Innovative technology and novel principles will be built up and applied to fresh fields, which have not yet been covered by researchers, in each capable area.



Notes:

**Contact Information**

Admissions Office, International Programs

Tel: +81-52-747-6556

Fax: +81-52-747-6526

Furo-cho, Chikusa-ku, Nagoya 464-8601 Japan

E-mail: [apply@g30.nagoya-u.ac.jp](mailto:apply@g30.nagoya-u.ac.jp)

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