

Program Instruction

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○ Undergraduate Program

The department offers a four-year undergraduate program leading to the degree of Bachelor of Science. The undergraduate program is designed to expose its students to a wide spectrum of intellectual pursuits. For the first two to three semesters, students are encouraged to take classes in general education, including basic science classes. Then, students may decide on their major by taking core and elective courses in specific field, according to their individual interest and ability. The KAIST undergraduate program is highly flexible, allowing students to take graduate-level courses and to complete their course work according to their abilities, and giving them the chance of early graduation.

○ Graduate Program

The department aspires to develop a world-class research program. Prerequisite to achieving such a goal is a strong graduate program. The Department houses remarkable research facilities and resources, which provide our graduate students the opportunity to develop advanced skills and competency in a wide spectrum of fields ranging from traditional chemical engineering to evolving areas of study. Our graduate students are expected to develop and communicate novel ideas at the frontier of Chemical and Biomolecular Engineering research. The focused research areas include biotechnology, nanomaterials, catalysis, soft materials, and energy/environment/systems.

The Department offers several programs designed to confer advanced academic degrees on to students. The students who meet the respective degree requirements will receive Master of Science (M.S.) or Doctor of Philosophy (Ph.D.) degrees. In both cases, they are asked to undergo formal coursework and mentoring. Course requirements vary between M.S. and Ph.D. programs; therefore, the students are advised to consult with degree requirements. All graduate students will select thesis advisor from the Chemical and Biomolecular Engineering faculty and must submit dissertation in order to receive the degree.