

Department of Chemical Engineering

Minor

- [Minor in Chemical Engineering](#)

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Administration:

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Academic Advisors: Professors Achinivu, Berry, Bilgin, Caracotsios, Chaplin, Dandu, Kim, Liu, Mehraeen, Ngo, Sharma, Singh, Torabi, Wedgewood, and Zdunek

In the Chemical Engineering curriculum, students learn to apply chemistry, physics, and mathematics to both the industrial-scale and nanoscale design and production of materials and chemicals. This includes petroleum products, polymers, biomaterials, pharmaceuticals, electronics, consumer products, and foods. This program also explores chemical engineering applications in developing sustainable processes for carbon-capture, sustainable energy, plastics recycling, environmental protection, water treatment, reducing global warming gases; the creation of alternative energy sources such as batteries, fuel cells and biofuels from biomass; and other frontiers, such as biotechnology, nanoparticle drug delivery, molecular engineering, molecular simulation, and machine learning.

The BS in Chemical Engineering program offers expertise in a wide variety of areas, including sustainable energy and sustainable water/environment, molecular and nanoscale engineering, bionanotechnology, electrochemistry, complex fluid flow/rheology, process design, process control and process simulation, biochemical engineering, and entrepreneurship. Students may use elective courses to specialize in these and other areas. The program's goal is to prepare students for careers in industry or government, and for further study at the graduate level. As the only chemical engineering department at a public university in the Chicago metropolitan area, this program provides unique opportunities for students to interact with industry mentors during their senior capstone design projects and with world-class industries through internship programs, undergraduate seminars and events, and research projects.

Accreditation

The Chemical engineering program at UIC is accredited by the [Engineering Accreditation Commission of ABET](#)

Degree Programs

- [BS in Chemical Engineering](#)
- [Joint BS in Chemical Engineering/MS in Chemical Engineering](#)