

# Department of Chemical Engineering

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**Contact Information:**

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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 the industrial-scale 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 processes for carbon-capture, sustainable engineering, 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, energy storage, and other frontiers, such as biotechnology, nanoparticle drug delivery, molecular engineering, nanotechnology, molecular simulation, and machine learning.

The BS in Chemical Engineering program offers expertise in a wide variety of areas, including energy and the environment, molecular engineering, nanotechnology, electrochemistry, complex fluid flow, 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 undergraduate seminars and events, research projects, and internship programs.

## 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](#)

## Minor

- [Minor in Chemical Engineering](#)