UNDERGRADUATE
STUDY IN CHEMICAL
AND BIOMOLECULAR
ENGINEERING

Chemical engineering is a discipline that traditionally has been based in the application of chemistry as an enabling science. The strength of that foundation has resulted in enormous advances in the chemical, petroleum, and related industries that have relied on chemical engineering to provide much of the intellectual capital on which they depend. Over time, and with increasing speed, the discipline has expanded so that biological sciences and chemistry now fill the position once uniquely held by chemistry. Georgia Tech’s School of Chemical & Biomolecular Engineering is a national leader in restructuring its curriculum and research initiatives to reflect that evolution.

The chemical and biomolecular engineering undergraduate curriculum leads to a Bachelor of Science in Chemical and Biomolecular Engineering. Chemical and biomolecular engineering principles are taught as the foundation of that degree but students also are expected to develop an ability to solve all kinds of problems, to view systems in their entirety, and to formulate and test solutions irrespective of the framework of the problem. Completion of the BS degree prepares students for entry into the workforce, for advanced study in chemical and biomolecular engineering, or for countless other graduate programs.

Mission

The mission of the School of Chemical & Biomolecular Engineering is to provide students with the intellectual basis to be educated citizens, to prepare them for successful professional careers, and to advance the science and technology that form the basis of chemical and biomolecular engineering. In pursuit of this mission, the School has adopted the following:

Program Educational Objectives

- Graduates will demonstrate proficiency in the principles and methods essential to modern chemical and biomolecular engineering.
- Graduates will demonstrate broadened perspectives regarding social issues and responsibilities, ethics, and professionalism.
- Graduates will be recognized for excellence and leadership and selected for high-quality industrial, academic, government, and other professional positions.
- Graduates will demonstrate an understanding of the global nature of engineering practice and business activities.
- Graduates will understand the importance of further professional growth through continuing education and research.

Program Outcomes

In pursuit of its educational objectives, the School has adopted the following program outcomes:

- Students will demonstrate the ability to design and conduct experiments, as well as to analyze and interpret data.
Minors
Special opportunities exist for students wishing to pursue minors or certificates in fields of particular interest, and students are encouraged to explore the frontiers of knowledge through involvement in faculty-directed research.

Visit our website at www.chbe.gatech.edu (http://www.chbe.gatech.edu) for more information.

Minor Program of Study & Guidelines (http://www.catalog.gatech.edu/academics/minors)

Bachelor’s Degrees
- Bachelor of Science in Chemical and Biomolecular Engineering (http://www.catalog.gatech.edu/programs/chemical-biomolecular-bs)
- Bachelor of Science in Chemical and Biomolecular Engineering - Biotechnology Option (http://www.catalog.gatech.edu/programs/chemical-biomolecular-engineering-biotechnology-option-bs)

Transfer Students
Due to the sequence of courses and the order in which they must be taken, students who transfer into the school of Chemical and Biomolecular Engineering (ChBE) from another university should expect to be enrolled for a minimum of six terms (a term is a semester or a summer session). If, for financial aid purposes, insurance, etc., students are required to be full-time, they should transfer to Georgia Tech having sufficient non-chemical and biomolecular engineering courses remaining to enroll full-time for six terms. All prerequisites and co-requisites must be followed.

The BS in Chemical and Biomolecular Engineering program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org (http://www.abet.org).