ABET Chemical Engineering

Accreditation

The New Jersey Institute of Technology (NJIT) Bachelor of Science in Chemical Engineering Program is accredited by the Engineering Accreditation Commission of ABET, www.abet.org, under the commission's General Criteria and Program Criteria for Chemical, Biochemical, Biomolecular and Similarly Named Engineering Programs.

ChE Program Educational Objectives

The undergraduate program leads to a Bachelor of Science degree in Chemical Engineering (ChE), producing graduates who will, within 3-5 years:

1. **Engineering Practice:** Graduates of our program are successfully engaged in the practice of chemical engineering within the industry, academe and government working in a wide array of technical specialties including but not limited to process and plant design operations.
2. **Professional Growth:** Graduates of our program advance their skills through professional growth and development activities such as graduate study in engineering or complementary disciplines, and continuing education; some graduates will transition into other professional fields such as business, law, and medicine through further education.
3. **Service:** Graduates of our program perform service to society and the engineering profession through participation in professional societies, government, civic organizations, and humanitarian endeavors.

ChE Student Outcomes

Students from the ChE program will attain (by the time of graduation):

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering

situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.