

ABET Chemical Engineering

Accreditation

The New Jersey Institute of Technology program in Chemical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.



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.

ChE Undergraduate Enrollment and Degrees Awarded

Academic Year	FTFTU	Transfer	Total Enrollment	Degrees Awarded
2019-2020	40	36	345	73
2018-2019	55	28	367	84
2017-2018	54	31	392	98
2016-2017	45	43	390	73
2015-2016	45	43	377	84
2014-2015	51	33	363	63