

ABET Civil Engineering

Accreditation

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



Engineering
Accreditation
Commission

CE Program Educational Objectives

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

- 1. Engineering Practice:** Alumni will successfully engage in the practice of civil engineering within industry, government, and private practice, working toward practical, sustainable solutions in a wide array of technical specialties including construction, environmental, geotechnical, structural, transportation, and water resources
- 2. Professional Growth:** Alumni will advance their skills through professional growth and development activities such as graduate study in engineering, research and development, professional registration and continuing education; some graduates will transition into other professional fields such as business and law through further education.
- 3. Service:** Alumni will perform service to society and the engineering profession through membership and participation in professional societies, government, educational institutions, civic organizations, charitable giving and other humanitarian endeavors.

CE Student Outcomes

Students from the CE 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.

CE Undergraduate Enrollment and Degrees Awarded

| Academic Year | FTFTU | Transfer | Total Enrollment | Degrees Awarded |
|----------------------|--------------|-----------------|-------------------------|------------------------|
| 2018-2019 | 79 | 83 | 645 | 144 |
| 2017-2018 | 70 | 59 | 605 | 150 |
| 2016-2017 | 65 | 73 | 604 | 141 |
| 2015-2016 | 76 | 70 | 583 | 128 |
| 2014-2015 | 78 | 53 | 550 | 109 |
| 2013-2014 | 74 | 54 | 551 | 132 |