

ABET Biomedical Engineering

Accreditation

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



Engineering
Accreditation
Commission

BME Program Educational Objectives

The undergraduate program leads to a Bachelor of Science degree in Biomedical Engineering (BME), producing graduates with the following attributes in their career:

Objective A) Students will be prepared for productive careers in the biomedical engineering field and embark upon diverse paths in industry (medical device / pharmaceutical / biotechnology), professional education (including medical school), or research.

Objective B) As professionals, our alumni will demonstrate the following traits:

- 1) Integrators: BME graduates will be able to translate and effectively communicate their fundamental knowledge of sciences, mathematics, liberal arts, and engineering analysis into actions that address and solve a wide range of problems, especially those related to medicine and biology.
- 2) Continued professional growth: BME graduates will continue to advance their skills through professional growth and development opportunities provided by participation in a professional society, continuing education, or graduate study.
- 3) Engage in service: BME graduates will engage in service to their chosen professional societies as well as their local, national, or global communities.

BME Student Outcomes

Students from the BME 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

BME Undergraduate Enrollment and Degrees Awarded

| Academic Year | FTFTU | Transfer | Total Enrollment | Degrees Awarded |
|----------------------|--------------|-----------------|-------------------------|------------------------|
| 2018-2019 | 94 | 18 | 364 | N/A |
| 2017-2018 | 96 | 29 | 331 | 60 |
| 2016-2017 | 63 | 17 | 298 | 65 |
| 2015-2016 | 84 | 13 | 298 | 56 |
| 2014-2015 | 73 | 13 | 280 | 61 |
| 2013-2014 | 65 | 9 | 283 | 59 |