

Biotechnology Engineering

B.S. Program

The Biotechnology Engineering (B.S.), is accredited by the Engineering Accreditation Commission of [ABET](#), under the commission's General Criteria with no applicable program criteria.

[Academic Program Information](#)

Program Educational Objectives (PEOs)

The Program Educational Objectives (PEOs) of the Biotechnology Engineering (B.S.) are broad statements describing the expected accomplishments of graduates within a few years after graduation. These objectives are that graduates will:

1. Works with leadership in any industry or sector where products or services involving biological materials or their derivatives are processed, obtained and/or provided.
2. Undertakes, innovates or manages processes, products, services or biotechnological projects that create value and improve her/his environment for the benefit of society.
3. Stays up to date with trends, new technologies or regulations related to her/his professional environment.
4. Demonstrates leadership in national or international settings, working effectively with multidisciplinary and multicultural teams.

Student Outcomes (SOs)

By the time of graduation, students of the program will be able to demonstrate:

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.