

Biomedical Engineering

B.S. Program

The Biomedical Engineering (B.S.) is accredited by the Engineering Accreditation Commission of [ABET](#), under the commission's General Criteria and Program Criteria for Bioengineering and Biomedical and Similarly Named Engineering Programs.

[Academic Program Information](#)

Program Educational Objectives (PEOs)

The Program Educational Objectives (PEOs) of the Biomedical 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. Performs professionally providing solutions in different organizations, within the healthcare sector or otherwise.
2. Demonstrates leadership, innovation and entrepreneurship promoting the human flourishing.
3. Is committed to keep up to date in their professional field, by the pursuit of further education.
4. Communicates and collaborates in multicultural and/or multidisciplinary teams with the highest ethical standards.

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.