

Sustainable Development Engineering

B.S. Program

The Sustainable Development 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 Sustainable Development 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. Remain up to date in the different areas of study and concepts related to sustainable development.
2. Be able to apply innovative and entrepreneurial ideas as tools to generate value and improve the environment within the context of sustainable development.
3. Perform with social responsibility, professionally, when implementing solutions for the sustainable development of an organization or community.
4. Lead projects in the field of sustainable development by collaborating with multidisciplinary or multicultural teams at a national and/or international level.

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.