

Gannon University
Undergraduate Catalog
2023-2024

Addendum: Effective October 2023

The following information has been updated after the catalog's electronic and hardcopy production was finalized.

Biomedical Engineering

- This program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Bioengineering, Biomedical and Similarly Named Engineering Programs Program Criteria.
- Student Learning Outcome 8. apply principles of biology, human physiology, solving bio/biomedical engineering problems, including those associated with the interaction between living and non-living systems
- Student Learning Outcome 9. apply the concept of statistical thinking, use statistical techniques to conduct data analyses, develop appropriate experimentations in problem solving, and interpret the results in context

Dual Computer Science and Software Engineering

- Gannon's Computer Science program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria. The Software Engineering program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Software and Similarly Named Engineering Programs Program Criteria.
- ABET Student Learning Outcomes

Computer Science

- 1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
- 2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
- 3. Communicate effectively in a variety of professional contexts.
- 4. Recognize professional responsibilities and make informed judgements in computing practice based on legal and ethical principles.
- 5. Function effectively as a member or leader of a team engaged with activities appropriate to the program's discipline.
- 6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

Software Engineering

- 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 large audiences
- 4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, 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 judgement to draw conclusions
- 7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Computer Science

- This program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Computer Science and Similarly Named Computing Programs Program Criteria.

Electrical Engineering

- This program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs Program Criteria.

Environmental Engineering

- The Bachelor of Science in Environmental Engineering program at Gannon University is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Environmental Engineering and Similarly Named Programs Program Criteria.

Industrial and Robotics Engineering

- This program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Industrial Engineering and Similarly Named Engineering Programs Program Criteria.

Mechanical Engineering

- This program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Mechanical and Similarly Named Programs Program Criteria

Software Engineering

- This program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Software and Similarly Named Engineering Programs Program Criteria.