

# College of Science, Engineering and Technology

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The College of Science, Engineering and Technology offers a diverse array of majors and minors through the departments of Human Biology, Natural and Applied Sciences, and the Richard J. Resch School of Engineering. These include human biology, biology, chemistry, environmental science, geoscience, physics, water science, computer science, mathematics and statistics, environmental engineering technology, electrical engineering technology, mechanical engineering technology, mechanical engineering, as well as a **new major in electrical engineering**. Faculty in the College are accomplished teachers and scholars who provide high quality instruction and hands-on teaching and research experiences to students in laboratory and field settings. The College has consistently obtained funding from local, state, and federal sources to support on-campus and community-based research projects that actively engage undergraduate students. The College also supports two seminar series (Human Biology and Natural and Applied Sciences) and several student organizations, while also providing numerous named scholarships for students. The state-of-the-art laboratory and research facilities include the Brown County STEM Innovation Center that houses the mechanical engineering and mechanical engineering technology programs, a human cadaver lab, an instrumentation laboratory, a scanning electron microscope, and numerous other research labs. A \$5.7 million renovation project was completed in 2022 and houses the electrical engineering and electrical engineering technology programs, as well as a new physics laboratory. In addition to the laboratory and research facilities associated with Human Biology, Natural and Applied Sciences, and the Resch School of Engineering, the College also includes the Cofrin Center for Biodiversity and the Environmental Management and Business Institute (EMBI), which both provide research and internship opportunities. The College also has a partnership with the Medical College of Wisconsin-St. Norbert Campus, with faculty in Human Biology providing instruction to Medical College of Wisconsin students.

Students in the College of Science, Engineering and Technology will have the opportunity to:

- Gain important knowledge and skills pertinent to their chosen field of study.
- Develop critical thinking, problem solving, and communication skills.
- Engage in hands-on teaching and research experiences.
- Utilize modern laboratories and equipment.
- Learn in an interdisciplinary environment that promotes diversity, equity, and inclusion.
- Become a complete student and citizen by participating in internships, co-ops, travel courses, student organizations, and other extracurricular activities.
- Fully prepare themselves for their next professional ambition – whether it be employment, further credentialing, or graduate/clinical education.

## Majors and Minors

- Biology (<http://catalog.uwgb.edu/undergraduate/programs/biology/>) (Animal Biology, Aquatic Ecology and Fisheries, Cell/Molecular, Ecology and Conservation, Microbiology, Pre-Veterinary)
- Chemistry (<http://catalog.uwgb.edu/undergraduate/programs/chemistry/>) (General, ACS Chemistry, ACS Environmental Chemistry, Biochemistry)
- Computer Science (<http://catalog.uwgb.edu/undergraduate/programs/computer-science/>) (Artificial Intelligence, Cybersecurity)
- Electrical Engineering (<http://catalog.uwgb.edu/undergraduate/programs/electrical-engineering/>)
- Electrical Engineering Technology (<http://catalog.uwgb.edu/undergraduate/programs/electrical-engineering-technology/>)
- Environmental Engineering Technology (<http://catalog.uwgb.edu/undergraduate/programs/environmental-engineering-technology/>)
- Environmental Science\* (<http://catalog.uwgb.edu/undergraduate/programs/environmental-science/>) (International Environmental Studies minor)
- Geoscience (<http://catalog.uwgb.edu/undergraduate/programs/geoscience/>)\*
- Human Biology (<http://catalog.uwgb.edu/undergraduate/programs/human-biology/>) (General, Applied Public Health, Health Science, Exercise Science, Cytotechnology, Nutritional Sciences/Dietetics, Nutritional Sciences/Dietetics (Accelerated) - Integrated with graduate Nutrition and Integrated Health program, Athletic Training (Accelerated) - Integrated with Master of Athletic Training program)
- Mathematics and Statistics (<http://catalog.uwgb.edu/undergraduate/programs/mathematics/>) (Mathematics, Statistics; Actuarial Science minor)
- Mechanical Engineering (<http://catalog.uwgb.edu/undergraduate/programs/mechanical-engineering/>)
- Mechanical Engineering Technology (<http://catalog.uwgb.edu/undergraduate/programs/mechanical-engineering-technology/>)
- Physics (<http://catalog.uwgb.edu/undergraduate/programs/physics/>) (minor only)
- Software Engineering (<http://catalog.uwgb.edu/undergraduate/programs/software-engineering/>)
- Sustainability (<http://catalog.uwgb.edu/undergraduate/programs/sustainability/>) (minor only)
- Water Science (<http://catalog.uwgb.edu/undergraduate/programs/water/>) (Water Science, Water Science (Accelerated) -Integrated with graduate Environmental Science & Policy program)

\* includes an accelerated option integrated with a graduate program

## Certificates

- Electrical Engineering Principles (<http://catalog.uwgb.edu/undergraduate/certificates/electrical-engineering-principles/>)
- Environmental Sustainability and Business (<http://catalog.uwgb.edu/undergraduate/certificates/emb/>)
- German Engineering (<http://catalog.uwgb.edu/undergraduate/certificates/german-engineering/>)
- Mechanical Engineering Principles (<http://catalog.uwgb.edu/undergraduate/certificates/mechanical-engineering-principles/>)
- Personal Training (<http://catalog.uwgb.edu/undergraduate/certificates/personal-training/>)