COLLEGE OF ENGINEERING AND POLYMER SCIENCE

The College of Engineering and Polymer Science (CEPS) provides educational opportunities at both the undergraduate and graduate levels for students who wish to pursue careers in engineering, engineering technology, computing, and polymer science. Faculty perform research with the purpose of contributing new knowledge to the fields encompassed by engineering principles. Professional service is in concert with the objectives of the University.

The College’s co-operative education program, one of the oldest in the nation, enables student engineers to integrate classroom learning with on-the-job experience while they earn their degrees. Students can alternate semesters of paid employment in their major fields of interest with semesters on campus after they have completed five semesters of study.

College Admission Requirements

All students who meet the minimum requirements for admittance (https://www.uakron.edu/admissions/undergraduate/who-are-you/new-freshman/requirements/) into The University of Akron and intend to pursue a major offered by the College are accepted into the College to work towards the major. Program-specific requirements must be met before taking upper-level coursework for the major; these requirements are based on successful completion of early foundational courses for the major, and are set to ensure that a student is well prepared for success in the major. Some programs require that students achieve certain minimum GPAs, minimum grades in foundational courses, or other early milestones before taking upper-level coursework.

Academic Standing in the College of Engineering and Polymer Science

A student’s term GPA, cumulative GPA, and progress toward degree determine whether a student is in good academic standing in the College. Evaluation of status is updated at the end-of-term. Students not in good academic standing in the College may be on placed on probation or suspension, or dismissed from the College of Engineering and Polymer Science. Specific details on the process are found at College of Engineering and Polymer Science Academic discipline (probation, suspension, and dismissal) policy (https://www.uakron.edu/engineering/docs/College%20of%20Engineering%20Academic%20Probation%20and%20Dismissal%20Fall%202018.pdf).

Students are also subject to University of Akron probation and dismissal policies (https://bulletin.uakron.edu/undergraduate/important-policies/grade-policy-credit/).

Students on College and / or UA academic probation may not register for classes without first consulting their College academic advisor to agree and document an approved group of courses. Students on academic probation, suspension, or dismissal have enrollment holds placed on their account to prevent registration until they have worked with their advisor.

Requirements for Graduation

- Compliance with University requirements (https://bulletin.uakron.edu/undergraduate/important-policies/graduation-requirements/)
- Completion of all degree requirements for the specific program, including completion of the appropriate list of courses, completion of a required minimum number of credits, and achievement of required minimum GPAs (both overall and program-specific).
- Recommendation of the student’s department

Accreditation in the College of Engineering and Polymer Science

Engineering is a profession in which knowledge of mathematics and natural sciences, gained by study, experience, and practice, is applied, with judgment, to develop ways to economically utilize the materials and forces of nature for the benefit of mankind. Entrance to the engineering profession is normally through a university undergraduate program in one of the disciplines of engineering and engineering technology.

Accreditation ensures that the graduates of our programs have a solid educational foundation and are ready to enter the profession. More on the importance of accreditation in engineering can be found here (http://www.abet.org/accreditation/what-is-accreditation/why-abet-accreditation-matters/).

Engineering

The College is home to eight undergraduate Bachelor of Science programs accredited by the Engineering Accreditation Commission of ABET, www.abet.org (http://www.abet.org): Aerospace Systems Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Corrosion Engineering, Electrical Engineering, and Mechanical Engineering.

Engineering Technology


Surveying and Mapping

The College’s Bachelor of Science in Surveying and Mapping program is accredited by the Applied and Natural Science Accreditation Commission of ABET, www.abet.org (http://www.abet.org).

Cooperative Education

The cooperative education program provides for a coordinated sequence of alternating periods of classroom instruction and employment during a five-year program. Students in many of the Engineering and Polymer Science's undergraduate programs may pursue their degree with the cooperative education option, for a nominal five years of study, or without cooperative education, for a nominal four years of study. The exception is Aerospace Systems Engineering; in this program, cooperative education is required.

The cooperative education program simultaneously provides for the development of fundamental principles in the classroom and for their application in practice. The student has the opportunity to find the type of work and organization in which the student can best apply individual ability. The student gains an appreciation of the problems of labor and management by first-hand experience. The student develops mature judgment by coping with everyday problems. The employer of a co-op student has the ability to train and select a student whose abilities and aptitudes can be adapted to the needs of technical staff requirements.
While a student is at work, all rules and regulations prescribed by the employer must be obeyed. In addition, the student is subject to all current labor laws and conditions. The student is considered a full-time student by the University while on industrial assignments.

The University does not guarantee employment, but makes every effort to place a student in the best learning situation that is consistent with the acquisition of sound professional experience.

**Department of Biomedical Engineering**
More information on the Department of Biomedical Engineering and the undergraduate programs in Biomedical Engineering is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/)
- department website (https://www.uakron.edu/engineering/BME/)

**Department of Chemical, Biomolecular, and Corrosion Engineering**
More information on the Department of Chemical, Biomolecular, and Corrosion Engineering and the undergraduate programs in Chemical Engineering and Corrosion Engineering is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/chemical-biomolecular-corrosion-engineering/)
- department website (https://www.uakron.edu/engineering/CBE/)

**Department of Civil Engineering**
More information on the Department of Civil Engineering and the undergraduate programs in Civil Engineering is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/civil-engineering/)
- department website (https://www.uakron.edu/engineering/CE/)

**Department of Computer Science**
More information on the Department of Computer Science and the undergraduate programs in Computer Science is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/computer-science/)
- department website (https://www.uakron.edu/computer-science/)

**Department of Electrical and Computer Engineering**
More information on the Department of Electrical and Computer Engineering and the undergraduate programs in Electrical Engineering and Computer Engineering is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/)
- department website (https://www.uakron.edu/engineering/ECE/)

**Engineering and Science Technology**
Our programs in Engineering and Science Technology are housed in various engineering departments. Listings for the programs can be found under their home departments. All programs in Engineering and Science Technology are also listed together in one area of the Undergraduate Bulletin for easy reference:

- Undergraduate Bulletin page on programs in engineering and science technology (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/engineering-science-technology/)

**Department of Mechanical Engineering**
More information on the Department of Mechanical Engineering and the undergraduate programs in Mechanical Engineering and Aerospace Systems Engineering is available at:

- department Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/mechanical-engineering/)
- department website (https://www.uakron.edu/engineering/ME/)

**School of Polymer Science and Polymer Engineering**
More information on the School of Polymer Science and Polymer Engineering and the undergraduate programs in Polymer Science and Polymer Engineering and is available at:

- school Undergraduate Bulletin page (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/polymer-science-polymer-engineering/)
- school website (https://www.uakron.edu/polymer/)