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 Associate of Applied Science in Land Surveying and Bachelor of Science in Surveying and Mapping programs are 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/)

**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/)

- Cooperative Education, College of Engineering and Polymer Science (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/cooperative-education/)
- Biomedical Engineering (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/)
  - Biomedical Engineering (Biomaterials and Tissue Track), BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-biomaterials-tissues-bs/)
  - Biomedical Engineering (Biomaterials and Tissue Track), Co-op Option, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-co-op-biomaterials-tissue-engineering-track-bs/)
  - Biomedical Engineering (Instrumentation, Signals and Imaging Track), BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-instrumentation-signals-imaging-bs/)
  - Biomedical Engineering (Instrumentation, Signals and Imaging Track), Co-op Option, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-co-op-instrumentation-signals-imaging-track-bs/)
  - Biomedical Engineering, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-co-op-biomechanics-track-bs/)
  - Biomedical Engineering, Co-op Option, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/biomedical-engineering/biomedical-engineering-co-op-biomechanics-track-bs/)
Chemical Engineering, BS

Civil Engineering

Construction Field Operations, AAS

Chemical Engineering, Co-op Option, BS

Chemical Engineering, Co-op Option, BS

Chemical Engineering, Polymer Engineering, Certificate

Corrosion Engineering, BS

Corrosion Engineering, Co-op Option, BS

Corrosion Engineering Technology, AAS

Corrosion Engineering Technology, Certificate

Civil Engineering

Civil Engineering, BS

Civil Engineering, Co-op Option, BS

Construction Engineering Technology, AAS

Construction Engineering Technology, BS

Construction Estimation, Certificate

Construction Field Operations, AAS

Construction Management, Certificate

Computer Science

Artificial Intelligence and Machine Learning, Certificate

Computer Information System, Programming Option, AAB

Computer Information Systems Programming Specialist, Minor

Computer Information Systems Programming, Certificate

Computer Information Systems, Computer Networking Option, Cisco Track, AAB

Computer Information Systems, Cybersecurity Option, BS
Electrical Engineering, BS
Computer Engineering, Co-op Option, BS
Mechanical Engineering
Electrical and Computer Engineering
Computer Engineering, BS
Computer Science, Management, BSCS
Computer Information Systems, Networking Option, BS
Computer Science, Certificate (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/computer-science/computer-science-certificate/)
Computer Science, Minor (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/computer-science/computer-science-minor/)
Computer Science, Systems, BSCS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/computer-science/computer-science-systems-bscs/)
Computer Security, Minor (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/computer-science/computer-security-minor/)
Electrical and Computer Engineering (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/)
Computer Engineering, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/computer-engineering-bs/)
Computer Engineering, Co-op Option, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/computer-engineering-co-op-bs/)
Electrical and Electronic Engineering Technology, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/electronic-engineering-technology-bs/)
Electrical Engineering, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/electrical-engineering-bs/)
Electrical Engineering, Co-op Option, BS (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/electrical-computer/electrical-engineering-co-op-bs/)
Mechanical Engineering (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/mechanical-engineering/)
Advanced Manufacturing Engineering Technology, AAS (https://bulletin.uakron.edu/undergraduate/colleges-programs/