The one or two-year pre-engineering program prepares students to pursue majors in any area of engineering. Students may wish to continue at The University of Scranton for electrical, computer or mechanical engineering, or they may apply to transfer to another university's undergraduate engineering program.

Outcomes & Opportunities

- Should you stay on at Scranton for your engineering degree, you can expect to pursue an internship in engineering. Nearly all upper-class students obtain paid engineering internships during the summer.
- Engineering plays a significant role in solving societal problems. Engineers develop new processes and products, always focusing on safety and responsible use of resources.
- From basic infrastructure of roads and bridges to evolving areas of technology, engineering is at the forefront of innovation.
- Building on knowledge and skills developed throughout the pre-engineering program, students who have completed this program are expected, within a few years, to have pursued a bachelor's degree program in engineering (if desired) or established themselves as professionals.
- Majors pursued by graduates of the pre-engineering program include aerospace engineering, biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering or mechanical engineering.

Scranton engineering students achieve top finishes in prestigious regional and national engineering competitions.
### Pre-Engineering Program Curriculum

**Department & Number - Descriptive Title of Course** | **Fall Cr.** | **Spr. Cr.**
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**FIRST YEAR**
COGNATE (GE NSCO) PHYS 140/PHYS 140L - (E) Elements of Physics I | 4 | 4
COGNATE (GE NSCO) PHYS 141/PHYS 141L - (E) Elements of Physics II | 4 | 4
COGNATE (GE QUAN) MATH 114 - (Q) Calculus I – MATH 221 Calculus II | 4.5 | 4.5
COGNATE CHEM 112-113 - (E) General & Analytical Chemistry/CHEM 112L-113L | 4.5 | 4.5
GE FSEM First Year Seminar | 1
GE PHIL PHIL 120 - Introduction to Philosophy | 3
GE T/RS T/RS 121 - Theology I: Introduction to the Bible | 3
GE WRIT WRTG 107 - (FYW) Composition | 3
**SECOND YEAR**
COGNATE COGNATE ELECTIVES | 3-4 | 6-7
COGNATE MATH 222 - Calculus III – MATH 341 - Differential Equations | 4 | 4
COGNATE CMPS 134 - Computer Science I/CMPS 134L - Computer Science I Lab | 4 | 4
MAJOR ENGR 253L - An Introduction to Computer-Aided Design – ENGR 254L - 3D Computer-aided Design | 1 | 1
GE ELECTIVE HUMANITIES/S/BH Electives | 6 | 6
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**Total: 70-71 Credits**

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1. The selection of a First Year Seminar is likely to fulfill requirements both for the First Year Seminar and a General Education Requirement. Thus, the First Year Seminar will not add to the total credits for the semester. Talk with your advisor if you have any questions.


For more information about the Physics and Electrical Engineering departments, visit its website at scranton.edu/academics.

Curriculum grid effective for the 2022-23 academic year in accordance with the undergraduate course catalog.

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**CONTACT INFORMATION**

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1.888.SCRANTON or visit admissions.scranton.edu

The computer and electrical engineering programs at The University of Scranton are accredited by the Engineering Accreditation Commission of ABET.