PRE-ENGINEERING

COLLEGE OF ARTS & SCIENCES

ABOUT THE MAJOR

The University of Scranton's one- or two-year Pre-Engineering Program offers a strong foundation for students interested in any engineering discipline. Whether you choose to continue your studies here in Electrical, Computer, or Mechanical Engineering, or transfer to another university to pursue a specialized undergraduate program, you'll be well-prepared to thrive.

CONTACT US

Juan Serna, Ph.D.
Chair, Department of Physics & Engineering

570.941.6582

juan.serna@scranton.edu

admissions.scranton.edu/preeng

BEST COLLEGES U.S.News & WORLD REPORT NATIONAL UNIVERSITIES 2027

OUTCOMES & OPPORTUNITIES

- Students who stay on for their engineering degree at Scranton typically secure paid summer internships, gaining hands-on experience and industry insight. Graduates of the Pre-Engineering Program go on to earn engineering degrees or launch successful careers — ready to apply their skills and make an impact.
- Engineering drives solutions to society's biggest challenges — designing safer, more sustainable processes and products. From roads and bridges to cutting-edge technologies, engineers are at the forefront of innovation, transforming ideas into real-world progress.
- Graduates of Scranton's Pre-Engineering Program go on to pursue majors such as aerospace, biomedical, chemical, civil, computer, electrical, and mechanical engineering — opening doors to dynamic careers across industries.



THE UNIVERSITY *of* SCRANTON

PRE-ENGINEERING

71-72 Credits

LEARN MORE!

1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
PHYS 140/PHYS 140L	Elements of Physics I	4
MATH 114	Calculus I	4
CHEM 112/112L	General Chemistry	4.5
WRTG 107	Composition	3
First Year Seminar		0
	Total Credits: **15.5**	

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
PHYS 141/PHYS 141L	Elements of Physics I	4
MATH 221	Calculus II	4
CHEM 113/113L	Analytical Chemistry	4.5
PHIL 120	Introduction to Philosophy	3
T/RS 121	Theology I: Introduction to the Bible	3
First Year Seminar		0
	Total Credits: **18.5**	

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
COGNATE ELECTIVES		3-4
MATH 222	Calculus III	4
CMPS 134/134L	Computer Science I	4
ENGR 253L	Computer Aided Design I	1.5
HUMANITIES/S/BH Electives		6
	Total Credits: **18.5-19.5**	

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
COGNATE ELECTIVES		6-7
MATH 341	Differential Equations	4
ENGR 254L	Computer Aided Design II	1.5
HUMANITIES/S/BH Electives		6
	Total Credits: **17.5-18.5**	



This is a sample curriculum. Please refer to the Undergraduate Catalog at **scranton.edu/catalog**.

09/2026