COMPUTER ENGINEERING

COLLEGE OF ARTS & SCIENCES

ABOUT THE MAJOR

Computer Engineering combines electrical engineering and computer science, focusing on research, design, development, and testing of computer systems and applications.

A liberal arts foundation ensures graduates are well-rounded, with strong communication and interpersonal skills to excel in technical and collaborative environments.

CONTACT US

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admissions.scranton.edu/compeng

The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET.

ABET | Engineering Accreditation Commission

OUTCOMES & OPPORTUNITIES

- Nearly all upper-class students secure paid summer internships, building hands-on skills in professional settings. Past internship sites include PPL, Cor Systems, Iridium Communications, VIIAD Systems, and Continental Tide Defense System.
- Alumni thrive in computational medicine, robotics, software engineering, and more, securing roles at leading companies such as Google, BAE Systems, Lockheed Martin, General Dynamics, iDEAL Semiconductor, L3Harris Technologies.
- Recent graduates have been admitted to prestigious schools such as Yale, Drexel, Lehigh, Michigan State University Law School, and SUNY Binghamton.



THE UNIVERSITY *of* SCRANTON

COMPUTER ENGINEERING

130-131 Credits

LEARN MORE!

1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
ENGR 150	Foundations of Physics and Engineering	3
CMPS 134/134L	Computer Science I	4
MATH 109	Pre-Calculus Mathematics or **MATH 142** Discrete Structures	4
CHEM 112	General Chemistry	3
PHIL 120	Introduction to Philosophy	3
First Year Seminar		0

Total Credits: **17**

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
WRTG 107	Composition	3
CMPS 144/144L	Computer Science II	4
MATH 114	Calculus I	4
PHYS 140/PHYS 140L	Elements of Physics I	4
HUMN ELECT	Humanities Elective	3
First Year Seminar		0

Total Credits: **18**

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
E/CE 240/240L	Introduction to Computer Engineering	4
PHYS 141/PHYS 141L	Elements of Physics II	4
MATH 221	Calculus II	4
CMPS 240	Data Structures and Algorithms	3

Total Credits: **15**

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
EE 241/EE 241L	Circuit Analysis	4
MATH 222	Calculus III	4
CMPS 250	Machine Organization and Assembly Language Programming	3
PHIL 210	Ethics	3
HUMN ELECT	Humanities Elective	3

Total Credits: **17**

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
EE 343/EE 343L	Electronic Circuits I	4
ENGR 350	Applied and Engineering Mathematics	3
EE 346	Digital Signal Processing	3
PHYS 270/PHYS 270L	Elements of Modern Physics	4
T/RS 121	Theology I: Introduction to the Bible	3

Total Credits: **17**

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
EE 344/EE 344L	Electronic Circuits II	3
E/CE 340	Digital Systems	3
Technical Elective or **MATH 142**	Discrete Structures	3-4
S/BH ELECT	Social/Behavioral Elective	6
T/RS 122	Theology II: Introduction to Christian Theology	3

Total Credits: **16-17**

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
EE 449/EE 449L	Embedded Systems	3
EE 450	Control Systems	3
CMPS 352	Operating Systems	3
S/BH ELECT	Social/Behavioral Elective	3
HUMN ELECT	Humanities Elective	3

Total Credits: **15**

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
EE 454	Robotics Design Project and Professional Practice	3
CMPS 374	Fundamentals of Software Engineering	3
CMPS 344	Programming Languages	3
PHIL ELECT or **T/RS ELECT**	Philosophy Elective or T/RS Elective	3

Total Credits: **15**

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

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