

ABOUT THE MAJOR

Computer Science students develop a strong foundation in computing and software engineering, preparing them for careers or advanced study.

Scranton's ABET-accredited program offers an exciting game development track, allowing students to explore creative and technical aspects of interactive design.

CONTACT US

Department of Computing Sciences

- 📞 570.941.7774
- ✉️ computing-sciences@scranton.edu
- 🌐 admissions.scranton.edu/compsci



OUTCOMES & OPPORTUNITIES

- Students gain real-world experience through internships, where they help companies utilize problem-solving technology while preparing for careers in innovative industries.
- Graduates launch careers as computer systems analysts, software engineers, and IT managers, securing roles at Microsoft, IBM, Lockheed Martin, MetLife, The New York Times, and Meta.
- Top undergraduates can dually enroll in Scranton's Combined B.S./M.S. program in Software Engineering, fast-tracking their education. Alumni have earned advanced degrees at universities such as Carnegie Mellon, Harvard, Penn, UConn, Drexel, Iowa State, Lehigh, UMass, and Yale.



COMPUTER SCIENCE

121-123 Credits

LEARN
MORE!



1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 134/134L	Computer Science I	4
MATH 142	Discrete Structures	4
CMPS 112	Introduction to Computing and Information Technology	3
PHIL 120	Introduction to Philosophy	3
HUMN ELECT	Humanities Elective	3
First Year Seminar		0

Total Credits: 17

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 144/144L	Computer Science II	4
MATH 114	Calculus I	4
WRTG 107	Composition	3
T/RS 121	Theology I: Introduction to the Bible	3
HUMN ELECT	Humanities Electives	3
First Year Seminar		0

Total Credits: 17

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 240	Data Structures and Algorithms	3
CMPS 213	Sophomore Colloquia I	0.5
MATH 221	Calculus II	4
NSCI ELECT	Natural Science Elective	4-4.5
PHIL 210	Ethics	3

Total Credits: 14.5-15

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 250	Machine Organization and Assembly Language Programming	3
CMPS 260	Theoretical Foundations of Computer Science	3
CMPS 214	Sophomore Colloquia II	0.5
MATH ELECTIVE		3-4
NSCI ELECT	Natural Science Elective	4-4.5
T/RS 122	Theology II: Introduction to Christian Theology	3

Total Credits: 16.5-18

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 352	Operating Systems	3
CMPS 340	Introduction to Database	3
CMPS 350	Computer Architecture	3
CMPS 313	Junior Colloquia I	0.5
S/BH ELECT	Social/Behavioral Elective	3
FREE ELECT	Free Elective	3

Total Credits: 15.5

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 344	Programming Languages	3
CMPS ELECT	Major Electives	6
CMPS 314	Junior Colloquia II	0.5
S/BH ELECT	Social/Behavioral Elective	3
FREE ELECT	Free Elective	3

Total Credits: 15.5

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 374	Fundamentals of Software Engineering	3
CMPS ELECT	Major Electives	3
CMPS 413	Senior Colloquia I	0.5
HUMN ELECT	Humanities Elective	3
FREE ELECT	Free Elective	3

Total Credits: 12.5

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 490	Capstone Project	3
CMPS ELECT	Major Electives	3
CMPS 414	Senior Colloquia II	0.5
PHIL 214	Computers and Ethics	3
HUMN ELECT	Humanities Elective	3

Total Credits: 12.5

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