APPLIED COMPUTING

COLLEGE OF ARTS & SCIENCES

ABOUT THE MAJOR

This major blends software development with specialized study through two tracks:

Business Track: Gain a strong foundation in accounting, economics, management, and marketing.

Individualized Track: Customize your education with a minor, concentration, or second major, tailoring your expertise to your interests.

CONTACT US

Department of Computing Sciences

570.941.7774

computing-sciences@scranton.edu

admissions.scranton.edu/cis

OUTCOMES & OPPORTUNITIES

- All seniors complete a capstone project under the guidance of faculty advisors, creating meaningful software products that showcase their skills and expertise. Students are also encouraged to pursue internships, gaining valuable workplace experience and professional insight.
- 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.

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



THE UNIVERSITY *of* SCRANTON

APPLIED COMPUTING

121 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**

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 240	Data Structures and Algorithms	3
CMPS 213	Sophomore Colloquia I	0.5
NSCI ELECT	Natural Science Elective	3
HUMN ELECT	Humanities Elective	3
S/BH ELECT	Social Behavioral Elective	3
PHIL 210	Ethics	3

Total Credits: **15.5**

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 352	Operating Systems	3
CMPS 340	Introduction to Database	3
CMPS 313	Junior Colloquia I	0.5
CMPS ELECT	Major Elective	3
COGNATE ELECT	Cognate Electives	6

Total Credits: **15.5**

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
CMPS 374	Fundamentals of Software Engineering	3
CMPS 413	Senior Colloquia I	0.5
COGNATE ELECT	Cognate Elective	3
FREE ELECT	Free Electives	6

Total Credits: **12.5**

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: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 250	Machine Organization and Assembly Language Programming	3
CMPS 214	Sophomore Colloquia II	0.5
MATH ELECTIVE		3
COGNATE ELECTIVE	Cognate Elective	3
NSCI ELECT	Natural Science Elective	3
T/RS 122	Theology II: Introduction to Christian Theology	3

Total Credits: **15.5**

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
CMPS 314	Junior Colloquia II	0.5
CMPS ELECT	Major Electives	6
CMPS 341	Database Systems	3
COGNATE ELECT	Cognate Electives	6
S/BH ELECT	Social/Behavioral Elective	3

Total Credits: **15.5**

4th Year: SPRING

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

Total Credits: **12.5**

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

09/2026