

THE UNIVERSITY OF SCRANTON  
COLLEGE OF ARTS & SCIENCES  
INFORMATION TECHNOLOGY

## About the Program

Information technology (IT) focuses on applying technology to solve problems in organizations. Students can concentrate their studies on areas such as security, user-interaction, network and systems administration, database administration and many others. Our IT program focuses on technology leadership.

## Outcomes & Opportunities

- Students enjoy hands-on, project-based learning and design experiences. They use software and equipment in labs that undergraduates rarely get to use.
- Students will be expected to complete internships and will receive support with their search.
- Students will be required to produce a major capstone project. This culminating project will demonstrate practical experience as well as theoretical knowledge. Recent senior projects include: virtual private network security study, health-related mobile application, travel-oriented web site design/interface, university club organizational tool, industry CRM project management (run jointly with MetLife).
- Students are prepared for employment in a wide variety of positions including:
  - business systems analyst
  - cybersecurity engineer
  - system administrator
  - front-end developer
  - network security analyst
  - technical project manager

**Ranked #8 nationally**  
**for “Best Science Labs”**  
**by The Princeton Review**



**SUCCESS AHEAD**

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# INFORMATION TECHNOLOGY CURRICULUM

	Department & Number - Descriptive Title of Course	Fall Cr.	Spr. Cr.
<b>FIRST YEAR</b>			
MAJOR	CMPS 134 - Computer Science I/CMPS 134L – CMPS 144 - Computer Science II/CMPS 144L	4	4
MAJOR	IT 120 - Human-Computer Interaction	3	
GE QUAN	MATH 142 - (Q) Discrete Structures	4	
GE EP	IT 112 - (FYDT, FYOC) Introduction to Computing & Information Technology	3	
GE EP	WRTG 107 - (FYW) Composition		3
GE HUMN	HUMN ELECT - Humanities Elective		6
GE PHIL-T/RS	PHIL 120 - Introduction to Philosophy – T/RS 121 - (P) Theology I: Introduction to the Bible	3	3
GE FSEM	First Year Seminar <sup>1</sup>		
		<b>17</b>	<b>16</b>

## SECOND YEAR

MAJOR	IT 241 - Fundamentals of Information Management – IT 210 - System Administration	3	3
MAJOR	IT 244 - Integrative Programming		3
MAJOR	CMPS 213 - Sophomore Colloquia I – CMPS 214 - Sophomore Colloquia II	0.5	0.5
COGNATE	COGNATE ELECT - Cognate Electives <sup>4</sup>	3	3
COGNATE	MATH 204 - (Q) Introduction to Statistics	3	
GE S/BH	S/BH ELECT - Social/Behavioral Electives <sup>3</sup>	3	3
GE PHIL- T/RS	PHIL 210 - Ethics – T/RS 122 - (P) Theology II: Introduction to Christian Theology	3	3
		<b>15.5</b>	<b>15.5</b>

## THIRD YEAR

MAJOR	IT 354 - Computer Networks	3	
MAJOR	IT 356 - Web Programming – IT 358 - Information Assurance & Security	3	3
MAJOR	CMPS 313 - Junior Colloquia I – CMPS 314 - Junior Colloquia II	0.5	0.5
COGNATE	COGNATE ELECT - Cognate Electives <sup>2</sup>	3	3
GE NSCI	NSCI ELECT - Natural Science Electives <sup>4</sup>	3-4	3-4
GE PHIL	PHIL 214 - (P) Computers & Ethics		3
GE ELECT	FREE ELECT - Free Electives	3	3
		<b>15.5-16.5</b>	<b>15.5-16.5</b>

	Department & Number - Descriptive Title of Course	Fall Cr.	Spr. Cr.
<b>FOURTH YEAR</b>			
MAJOR	IT 310 - (EPW) System Integration & Architecture – IT 490 - (W,EPW) Capstone Project	3	3
MAJOR	ITELECT - IT Intern/Pract	3	
MAJOR	CMPS 413 - Senior Colloquia I – CMPS 414 - Senior Colloquia II	0.5	0.5
COGNATE	COGNATE ELECT - Cognate Electives <sup>2</sup>	3	6
GE HUMN	HUMN ELECT - Humanities Electives	3	3
		<b>12.5</b>	<b>12.5</b>

**Total: 120-125 Credits**

## CONTACT INFORMATION

### Computing Sciences Department

Tel: 570.941.7774 • Email: [cmsps@cs.scranton.edu](mailto:cmsps@cs.scranton.edu)

**1.888.SCRANTON** or visit [admissions.scranton.edu](http://admissions.scranton.edu)

<sup>1</sup> Selection of a First Year Seminar that also fulfill a General Education Requirement will not add to the total credits for the semester.

<sup>2</sup> At least two courses from one of the areas below, and at least one from one of the other areas. Additional courses must be approved by the student's Departmental Academic Advisor.

- Accounting (ACC 253 - Financial Accounting, ACC 254 - Managerial Accounting)
- Art (ART 112 - Color and Design)
- Communication (COMM 214 - Small Group Communication, COMM 312 - Organizational Communication)
- Computing (CMPS 240 - Data Structures and Algorithms, CMPS 250 - Machine Organization and Assembly Language Programming, CMPS 330 - (W, EPN) Information Systems Analysis, CMPS 331 - Information Systems Development)
- Finance (FIN 251 - Introduction to Finance)
- Health Administration (HADM 111 - Introduction to Health Administration, HADM 112 - Health Systems, HADM 211 - (W, EPN) Health Administration)
- Marketing (MKT 351 - Principles of Marketing)
- Management (MGT 251 - Legal Environment of Business, MGT 351 - Principles of Management I, MGT 352 - Principles of Management II)
- Mathematical and Theoretical Foundations (CMPS 260 - Theoretical Foundations of Computer Science, MATH 114 - (Q) Calculus I, MATH 368 - Cryptography)
- Psychology (PSYC 230 - Sensation and Perception, PSYC 236 - Industrial/Organizational Psychology)
- Writing (WRTG 211 - (W) Writing for the Workplace)

<sup>3</sup> Recommendations include ECO 153, ECO 154, S/CJ 210, PSYC 110.

<sup>4</sup> Recommendations include BIOL 110 -111, CHEM 110-111, PHYS 120-121.

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