

# INFORMATION TECHNOLOGY (BA)

The B.A. in Information Technology is designed for those interested in leadership roles in the growing and ever-critical IT job market. You can begin the program with a minimal understanding of computers and finish with skills to be an effective IT or software development practitioner. Students have the option to pursue admission into the dual BA/MS Information Technology program once they have completed 90 credit hours toward their undergraduate degree. This positions students for even more robust opportunities in their respective careers.

## Related Programs

### Certificate

- Cybersecurity Technology Management Certificate (<https://catalog.luc.edu/undergraduate/continuing-professional-studies/cybersecurity-technology-management-certificate/>)

### Combined

- Information Technology (BA/MS) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/information-technology-bams/>)
- Information Technology/Computer Science (BA/MS) (<https://catalog.luc.edu/undergraduate/accelerated-bachelors-masters-program/information-technology-computer-science-ba-ms/>)

## Curriculum

The B.A. in Information Technology comprises 120 credit hours. Courses are offered in an 8 week session format with online and evening options. Students will also have access to state-of-the-art computer labs to support their studies.

Code	Title	Hours
<b>Major Courses</b>		
CPST 250	Foundations of Organizations	3
CPST 310	Accounting Principles and Application	3
CPST 349	Project Management	3
STAT 103	Fundamentals of Statistics	3
COMP 170	Introduction to Object-Oriented Programming	3
COMP 251	Introduction to Database Systems	3
COMP 271	Data Structures I	3
CPST 291	Dynamic Programming Languages	3
CPST 325	Data Processing, Analysis, and Visualization	3
CPST 342	Introduction to Web Application Development	3
CPST 343	Software Development for Mobile Devices	3
COMP 317	Social, Legal, and Ethical Issues in Computing	3
CPST 345	Introduction to IT: Networking, Cloud & Security	3
<b>SCPS Courses</b>		
CPST 200	Introduction to Degree Completion	3
CPST 201	Civic Identity and Development	3
CPST 397	Capstone	3

### Core Requirements

The number of hours remaining toward Core requirements can vary due to transfer credit.<sup>1</sup>

### Mission Specific Requirements

Mission specific requirements can vary from 0 to 15 credit hours based on your prior credit.

### General Elective Requirements

Students may have some general elective coursework to complete if their transfer credit and remaining required hours (Core, mission specific, major, etc.) do not total 120.

**Total Hours** **120**

<sup>1</sup> Core Requirements - Learn More (<https://catalog.luc.edu/undergraduate/university-requirements/university-core/>)

## Suggested Sequence of Courses

The School of Continuing and Professional Studies provides a high-touch advising model in order to incorporate the professional and educational outcomes of the student as well as any transfer credit accepted. In order to provide students with maximum flexibility in their education and because everyone's academic background will vary, advisors will work directly with students to determine an appropriate sequence of courses starting at admission into their respective program based on their needs and expected time to completion.

## Additional Undergraduate Graduation Requirements

All Undergraduate students are required to complete the University Core, at least one Engaged Learning course, and UNIV 101. SCPS students are not required to take UNIV 101. Nursing students in the Accelerated BSN program are not required to take core or UNIV 101. You can find more information in the University Requirements (<https://catalog.luc.edu/undergraduate/university-requirements/>) area.

## Learning Outcomes

Upon degree completion, graduates will be able to:

- Demonstrate a high level of proficiency in making informed and strategic decisions, applying quantitative analysis, and implementing project management strategies to effectively impact organizational goals.
- Demonstrate knowledge of legal and ethical considerations in information technology and apply technical and ethical solutions.
- Apply foundational knowledge of IT systems, computer networking, and security, including cloud computing concepts, TCP/IP model, packet-based networking, wireless networking, and cybersecurity principles.
- Organize data in ways to emphasize relationships to elicit information from a database that allows data to be mined, visualized and graphically display via web interfaces.
- Develop programs using fundamental programming constructs, data structures, and algorithms, while demonstrating the ability to choose appropriate solutions and justify their selections.
- Apply object-oriented principles (abstraction, delegation, inheritance, and polymorphism) and design patterns, and demonstrate proficiency in programming, testing, and debugging using a mainstream object-oriented language.