

COMPUTER SCIENCE / BACHELOR OF ARTS

Total Credit Hours: 120

Major Credit Hours: 49

This program is offered in both the traditional and accelerated format. The degree requirements are the same in both formats. The degree requirements are listed below. For accelerated program information, refer to the School of Graduate, Professional, and Continuing Education section (<https://catalog.lewisu.edu/undergraduate/graduate-professional-continuing-education/>) in this catalog.

Requirements

Degree Requirements

Code	Title	Hours
Core Courses		
MATH 21000	Discrete Mathematics	4
CPSC 20000	Introduction to Computer Science	3
CPSC 21000	Programming Fundamentals	3
CPSC 24500	Object-Oriented Programming	3
CPSC 28100	Introduction to Networks	3
CPSC 30000	Computer Organization	3
CPSC 34000	Algorithms and Data Structures	3
CPSC 35000	Operating Systems	3
CPSC 42000	Cybersecurity Essentials	3
CPSC 46000	Programming Languages	3
Electives		
Select any four additional Computer Science or Data Science courses at or above the 20000-level. One of the following courses may substitute for one computer science elective:		
MATH 22000	Applied Probability and Statistics	
MATH 30500	Linear Algebra	
MATH 31600	Advanced Statistics	
MATH 35000	Numerical Analysis	
MATH 36500	Mathematical Modeling	
Capstone Sequence		
The advanced writing requirement of the General Education curriculum is satisfied by successful completion of the Capstone Sequence.		
CPSC 44000	Software Engineering	3
CPSC 49200	Software Systems Capstone Project	3
Total Hours		49

Advanced Writing Requirement

The Advanced Writing Requirement of the General Education Curriculum is satisfied by successful completion of CPSC 49200 Software Systems Capstone Project.