

COMPUTER SCIENCE MINOR

Requirements

A minor in computer science can be obtained by completing the following 18 hours:

Code	Title	Credits
Core Courses		
CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I	3
CSCI 1620	INTRODUCTION TO COMPUTER SCIENCE II	3
CSCI 2030	MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE	3
CSCI 3320	DATA STRUCTURES	3
Elective Computer Science Courses		
Select 6 hours at the 3000 level or above (see below)		6
Total Credits		18

Electives Courses – 3000 Level or above (6 hours)

Code	Title	Credits
CSCI 3100	APPLIED COMBINATORICS	
CSCI 3450	NATURAL LANGUAGE PROCESSING	
CSCI 3470	FUNDAMENTALS AND ALGORITHMS OF MACHINE LEARNING	
CSCI 3510	ADVANCED GAME PROGRAMMING	
CSCI 3550	COMMUNICATION NETWORKS	
CSCI 3660	THEORY OF COMPUTATION	
CSCI 3710	INTRODUCTION TO DIGITAL DESIGN AND COMPUTER ORGANIZATION	
CSCI 3830	ADVANCED JAVA PROGRAMMING	
CSCI 3850	FOUNDATIONS OF WEB SEARCH TECHNOLOGIES	
CSCI 4010	INTRODUCTION TO THE THEORY OF RECURSIVE FUNCTIONS	
CSCI 4100	INTRODUCTION TO ALGORITHMS	
CSCI 4150	GRAPH THEORY & APPLICATIONS	
CSCI 4200	NUMERICAL METHODS	
CSCI 4220	PRINCIPLES OF PROGRAMMING LANGUAGES	
CSCI 4250	HUMAN COMPUTER INTERACTION	
CSCI 4260	USER EXPERIENCE DESIGN	
CSCI 4300	DETERMINISTIC OPERATIONS RESEARCH MODELS	
CSCI 4310	PROBABILISTIC OPERATIONS RESEARCH MODELS	
CSCI 4350	COMPUTER ARCHITECTURE	
CSCI 4380	DIGITAL FORENSICS	
CSCI 4430	QUANTUM COMPUTING AND CRYPTOGRAPHY	
CSCI 4440	INTRODUCTION TO PARALLEL COMPUTING	
CSCI 4450	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	
CSCI 4470	PATTERN RECOGNITION	
CSCI 4480	ALGORITHMS FOR ROBOTICS	

CSCI 4500	OPERATING SYSTEMS
CSCI 4560	NUMBER THEORY & CRYPTOGRAPHY
CSCI 4620	COMPUTER GRAPHICS
CSCI 4650	INTRODUCTION TO CLOUD COMPUTING
CSCI 4660	AUTOMATA, COMPUTABILITY, AND FORMAL LANGUAGES
CSCI 4700	COMPILER CONSTRUCTION
CSCI 4830	INTRODUCTION SOFTWARE ENGINEERING
CSCI 4850	DATABASE MANAGEMENT SYSTEMS
CSCI 4890	DATA WAREHOUSING AND DATA MINING
CSCI 4900	INTERNET SYSTEMS DEVELOPMENT
CSCI 4950	INTERNSHIP IN COMPUTER SCIENCE
CSCI 4970	CAPSTONE PROJECT
CSCI 4980	TOPICS IN COMPUTER SCIENCE
CSCI 4990	INDEPENDENT STUDIES

In all cases, students are responsible for completing any courses identified as prerequisites or co-requisite for the courses in the minor.

In addition, students must have a grade of C- or better in any prerequisite for a CSCI course.