

# COMPUTER SCIENCE MAJOR

## Requirements for a Major in Computer Science

### Bachelor of Science

Code	Title	Hours
<b>Foundation</b>		
CSCI 111	Introduction to Computer Science	4
CSCI 112	Data Structures	4
CSCI 210	Introduction to Discrete Structures	3
or MATH 220	Discrete Mathematics	
CSCI 211	Computer Organization	3
CSCI 212	Systems Programming	4
CSCI 213	Object-Oriented Programming	4
CSCI 311	Algorithms	3
<b>Programming Emphasis</b>		
Select one of the following:		3
CSCI 330	Network Architecture and Protocols	
CSCI 332	Computer Graphics	
CSCI 335	Web Development	
CSCI 340	Parallel Computing	
CSCI 350	Operating Systems	
CSCI 382	Special Topics in Computer Science	
<b>Mathematical Emphasis</b>		
Select one of the following:		3-4
MATH 107	Introduction to Math Modeling	
MATH 111	Introduction to Statistics	
MATH 113	Introduction to Statistics	
MATH 120	Introductory Logic	
MATH 131	Calculus I	
CSEC 353	Cryptography	
CSCI 363	Theory of Computation	
CSCI 383	Special Topics in Computer Science	
<b>Electives</b>		
Select three additional courses from the following:		9
CSCI 229	Introduction to Robotics	
CSCI 236	Database Systems	
CSCI 280-284	Special Topics in Computer Science	
CSCI 330	Network Architecture and Protocols	
CSCI 332	Computer Graphics	
CSCI 333	Programming Languages	
CSCI 335	Web Development	
CSCI 339	Artificial Intelligence	
CSCI 340	Parallel Computing	
CSCI 343	Introduction to Simulation	
CSCI 350	Operating Systems	
CSCI 363	Theory of Computation	
CSCI 380-384	Special Topics in Computer Science	
CSCI 485	Computer Science Research	
CSEC 322	System Security and Defense	
CSEC 323	Software Security	

CSEC 353	Cryptography
<i>One of the following may be included as an elective:</i>	
MATH 213	Elementary Linear Algebra
MATH 330	Graph Theory
MATH 350	Game Theory
PHYS 210	Digital Electronics
<b>Total Hours</b>	<b>40-41</b>