

Computer Science Major



Eligibility to Apply for Upper Division CS Program

CIS Core Courses	General Education Courses
CIS 121 - Introduction to Programming 4Cr CIS 122 - Data Structures 4Cr CIS 223 - Algorithms 4Cr CIS 224 - Computer Architecture 4Cr	ENG 101 - Foundations of Writing & Rhetoric 4Cr COMM 102 - Public Speaking 3Cr
	Science Courses - Choose 8 - 9 Credits
Math Courses	BIOL 105 - General Biology I 4Cr BIOL 106 - General Biology II 4Cr CHEM 201 - General Chemistry I 5Cr CHEM 202 - General Chemistry II 5Cr GEOL 121 - Physical Geology 4Cr PHYS 221 - General Physics I 4Cr PHYS 222 - General Physics II 3Cr PHYS 223 - General Physics III 3Cr PHYS 223 - General Physics II Laboratory 1Cr PHYS 233 - General Physics III Laboratory 1Cr *PHYS 222 & 232 must be taken together. *PHYS 223 & 233 must be taken together
MATH 121 - Calculus I 4Cr MATH 122 - Calculus II 4Cr MATH 247 - Linear Algebra I 4Cr MATH 280 - Discrete Mathematics for Computer Science I 4Cr	

Upper Division CS Courses

CS Core Courses		Seminar Courses - 1 Credit/Semester	
CIS 301 - CS Core:Opertating Systems 2Cr		CS 495 - Computer Science Seminar 4Cr	
CIS 302 - CS Core:Software Engineering & Parallel Computing..... 2Cr		CS Electives - Choose 12 Credits	
CIS 303 - CS Core:Programming Language 2Cr		CS 306 - Network Architectures 2Cr	
CIS 304 - CS Core:Databases & Information Security.2Cr		CS 308 - Applied Algorithms 2Cr	
Project Courses		CS 401 - Topics in Operating Systems 2Cr	
CS 391W - Computer Science Project 1 4Cr		CS 406 - Topics in Programming Languages 2Cr	
CS 392W - Computer Science Project 2 4Cr		CS 410 - Topics in Algorithms & Computability 2Cr	
CS 491W - Computer Science Capstone 1 4Cr		CS 415 - Topics in Parallel & Distributed Computing 2Cr	
CS 492W - Computer Science Capstone 2 4Cr		CS 420 - Topics in Architecture & Organization 2Cr	
Math Courses		CS 435 - Topics in Intelligent Systems 2Cr	
MATH 380 - Discrete Mathematics for Computer Science II 4Cr		CS 440 - Topics in Information Management 2Cr	
MATH 354 - Concepts of Probability & Statistics 4Cr		CS 445 - Topics in Information Assurance & Security 2Cr	
		CS 450 - Topics in Computational Science 2Cr	
		CS 465 - Topics in Graphics & Visualization 2Cr	
		CS 470 - Topics in Human Computer Interaction 2Cr	
		CS 480 - Topics in Software Engineering 2Cr	
		CS 485 - Topics in Platform - Based Development 2Cr	

Minor

Upon completion of this program, a mathematics minor can be earned.