

B.A. In Computer Science

Specializations: Not Applicable

BASIC REQUIREMENTS	General Math & Science Courses Core Courses in Major	15 39
ELECTIVE REQUIREMENTS	Specialization Electives Open Electives and LPAP FWIS and Distribution Courses	6-8 34-36 24
Minimum credit required for the B.A.		120

Sample Degree Plan

THIS IS ONE EXAMPLE OF MANY POSSIBLE SCHEDULES.
CONSULT A DIVISIONAL OR DEPARTMENTAL ADVISOR TO CUSTOMIZE YOUR DEGREE PLAN.

Of the 120 total degree credits, the BA in Computer Science requires 60-62 credits in general math and science courses and core courses.

FALL			SPRING		
FRESHMAN 14 credits			FRESHMAN 14 credits		
MATH 101	Single Variable Calculus I	3	MATH 102	Single Variable Calculus II	3
COMP 140	Comp Thinking or 160	4*	COMP 182	Algorithmic Thinking	4*
FWIS	Freshman Writing	3	ELEC 220	Fund of Computer Engineering	4*
OPEN	Open elective	3	DIST	Distribution elective	3
LPAP	Lifetime Phys Activity elective	1			
SOPHOMORE 16 credits			SOPHOMORE 14 credits		
MATH 211	Ordinary Differential Equations or 212 or 221 or 222	3	COMP 321	Intro to Computer Systems	4*
COMP 215	Introduction to Program Design	4*	COMP 322	Principles of Parallel Prog	4*
DIST	Distribution elective	3	DIST	Distribution elective	3
DIST	Distribution elective	3	OPEN	Open elective	3
OPEN	Open elective	3			
JUNIOR 16 credits			JUNIOR 13 credits		
COMP 310	Adv Object-Oriented Prog & Design	4*	COMP 421	Operating Sys & Concurrent Prog	4
MATH 355	Linear Algebra/ Matrix Analysis or 354 or CAAM 335	3	STAT 310	Probability and Statistics or 312 or 331	3
COMP 382	Reasoning About Algorithms	3	CORE	COMP elective course	3
DIST	Distribution elective	3	OPEN	Open elective	3
OPEN	Open elective	3			
SENIOR 16 credits			SENIOR 15 credits		
COMP 411	Advanced Prog Languages or 412	4	DIST	Distribution elective	3
CORE	COMP elective course	3	OPEN	Open elective	3
DIST	Distribution elective	3	OPEN	Open elective	3
OPEN	Open elective	3	OPEN	Open elective	3
OPEN	Open elective	3			

Major Requirements

NUMBER	CREDIT	TITLE
MATH 101	3	Single Variable Calculus I
MATH 102	3	Single Variable Calculus II
MATH 211/212/221/222	3	Ordinary Differential Equations & Linear Algebra/Multivariable Calculus/ Honors Calculus III/Honors Calculus IV
MATH 355/354/ CAAM 335	3	Linear Algebra/Honors Linear Algebra/Matrix Analysis
STAT 310/312/331	3	Probability & Statistics/Probability & Statistics for CEVE/Applied Probability
ELEC 220	4*	Fundamentals of Computer Engineering
COMP 140/160	4*	Intro To Computational Thinking/Intro to Computer Game Creation
COMP 182	4*	Algorithmic Thinking
COMP 215	4*	Introduction to Program Design
COMP 310	4*	Advanced Object - Oriented Programming And Design
COMP 321	4*	Intro to Computer Systems
COMP 322	4*	Principles Of Parallel Programming
COMP 382	3	Reasoning About Algorithms
COMP 411/412	4	Advanced Programming Languages/Compiler Construction
COMP 421	4	Operating Systems and Concurrent Programming
COMP Elective	3-4	COMP 300 or above
COMP Elective	3-4	COMP 300 or above

* In addition to class hours, these courses have a regularly scheduled lab that must fit into your schedule.

* In addition to class hours, these courses have a regularly scheduled lab that must fit into your schedule.