B.A. In Computer Science

Specializations: Not Applicable

BASIC REQUIREMENTS	General Math & Science Courses	18
	Core Courses in Major	34
ELECTIVE REQUIREMENTS	Speciallization Electives	6–8
	Open Electives	38–36
	Distribution Courses in Humanities and Social Science	24
	Minimum credit required for the B.A.	120

Of the 120 total degree credits, COMP requires 58–60 credits in general math and science courses and core courses.

Sample Degree Plan

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

FALL

FRESHMAN		13 credits
MATH 101	Single Variable Calculus I	3
COMP 140 or 160/170	Comp Thinking	4*
DIST	Distribution elective	3
OPEN	Open elective	3
LPAP	Lifetime Phys Activity elective	0

SOPHOMORE		16 credits
MATH 211 or 221	Ordinary Diff Equa	3
COMP 221	Introduction to Computer Systems	4*
DIST	Distribution elective	3
DIST	Distribution elective	3
OPEN	Open elective	3

JUNIOR		16 credits
COMP 311 or 412	Program Languages	4
STAT 331 or 310	Applied Probability	3
MATH 355 or 354/335	Linear Algebra	3
DIST	Distribution elective	3
OPEN	Open elective	3

SENIOR		15 credits
COMP 482 or 481	Design and Analysis of Algorithms	3
DIST	Distribution elective	3
OPEN	Open elective	3
OPEN	Open elective	3
OPEN	Open elective	3

SPRING

FRESHMAN		14 credits
MATH 102	Single Variable Calculus II	3
COMP 211	Principles of Program Design	4*
ELEC 220	Fund of Computer Engineering	4*
DIST	Distribution elective	3
LPAP	Lifetime Phys Activity elective	0

SOPHOMORE		16 credits
MATH 212 or 222	Multivariable Calculus	3
COMP 280	Mathematics of Computation	3
COMP 314	Appl Algorithms & Data Struct	4
DIST	Distribution elective	3
OPEN	Open elective	3

JUNIOR		16 credits
COMP 421	Operating Sys & Concurrent Prog	4
CORE	COMP elective course	3
CORE	COMP elective course	3
OPEN	Open elective	3
OPEN	Open elective	3

SENIOR		15 credits
DIST	Distribution elective	3
OPEN	Open elective	3
OPEN	Open elective	3
OPEN	Open elective	3
OPEN	Open elective	3

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

Major Requirements

NUMBER	CREDIT	TITLE
MATH 101	3	Single Variable Calculus I
MATH 102	3	Single Variable Calculus II
MATH 211/221	3	Ordinary Diff. Eqts. & Linear Algebra or Honors Calculus III
MATH 212/222	3	Multivariable Calculus or Honors Calculus IV
MATH 355/354/ CAAM 335	3	Linear Algebra/Honors Linear Algebra/Matrix Analysis
STAT 331/310	3	Applied Probability/Probability & Statistics
ELEC 220	4*	Fundamentals of Computer Engineering
COMP 140/ 160/170	4*	Intro to Computation/Introduction to Computer Games/ Computational Thinking in Biology
COMP 211	4*	Principles of Program Design
COMP 221	4*	Introduction to Computer Systems
COMP 280	3	Mathematics of Computer Science
COMP 314	4	Applied Algorithms and Data Structures
COMP 311/412	4	Programming Languages or Compiler Construction
COMP 421	4	Operating Systems
COMP 481/482	3	Automata, Formal Languages, and Computability/ Design and Analysis of Algorithms
COMP Elective	3–4	COMP 300 or above
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