

Bachelor of Science in Computer Science with a Concentration in Advanced Computing	
MAJOR REQUIREMENTS/COMPUTER SCIENCE: 51 Credits	Credits
CS102: Introduction to Computing and Problem Solving	4.0
CS175: Introduction to Computer Science I	4.0
CS176: Introduction to Computer Science II	4.0
CS202: Discrete Math and Applications	4.0
CS286: Computer Architecture I	3.0
CS305: Data Structures and Algorithms	4.0
CS325: Software Engineering Concepts	3.0
CS310: Advanced Object Oriented Programming/Design	4.0
CS432: Database Systems	4.0
CS438: Operating Systems Analysis	4.0
CS490: Senior Project	4.0
6 credits of CS Electives from 200+ level	
CS200+: <i>(See Exceptions*)</i>	3.0
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<i>*Except the following courses: CS288, CS388, CS488, CS212, CS222, CS302, CS312, CS316, CS320, CS322, and CS330</i>	
3 credits of CS Electives from 400+ level	
CS400+: <i>(Except CS488)</i>	3.0
REQUIREMENTS OUTSIDE MAJOR: 26 Credits	Credits
MA125: Calculus with Analytic Geometry I	4.0
MA126: Calculus with Analytic Geometry II	4.0
MA319: Probability and Statistics I	3.0
8 credits from subjects BY, CE, PH	
Take one Group:	8.0
CE111/CE111L: General Chemistry I/Lab AND	
CE112/CE112L: General Chemistry II/Lab	
or	
PH211/PH211L: General Physics with Calculus I/Lab AND	
PH212/PH212L: General Physics with Calculus II/Lab	
or	
BY109: Introduction to Biodiversity and Evolution AND	
BY110: Introduction to Cell and Molecular Biology	
Select 4 additional credits (not taken above) from among:	
BY109, BY111, BY223, CE111 and CE111L, CE220 and CE220L, CE221 and CE221L, CE241 and CE241L, or PH211 and PH211L	4.0
3 credits from among:	
PH301, PH302, BY201, BY205, BY214, BY220, BY221, MA211, MA221, MA225, or MA320	3.0
FREE ELECTIVES: Credits	Credits
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GENERAL EDUCATION REQUIREMENTS: 33 Credits		Credits
First Year Seminar	FY-101: First Year Seminar	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA125 or MA126	0.0
Natural Sciences	Fulfilled in Outside Major Requirements with required courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	Fulfilled in Major Requirements with CS102	0.0
Reasoned Oral Discourse	Fulfilled in Outside Major Requirements with CS490	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV or 3 Credits from courses designated with Course*Type: SS.SV	3.0
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity and Global Understanding or Foreign Language	3 Credits from courses designated with Course*Type: CD and 3 Credits from courses designated with Course*Type: GU or 6 Credits from the SAME foreign language	6.0
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Computer Science (CS) designated with Course*Type: WT	0.0
		0.0

Minimum Credits for Bachelor of Science in Computer Science with a Concentration in Advanced Computing = 128.0

NOTES:

* 58 credits must be completed at the 200 level or higher.