Current				Revised		
DEGREE: BACHELOR OF SCIENCE				**DEGREE: BACHELOR OF SCIENCE**		
MAJOR: COMPUTER SCIENCE				**MAJOR: COMPUTER SCIENCE**		
CURRICULUM		**CREDITS**		**CURRICULUM**		**CREDITS**
UNIVERSITY REQUIREMENTS				**UNIVERSITY REQUIREMENTS**		
ENGL 110	Critical Reading and Writing (minimum grade C-)	3		ENGL 110	Critical Reading and Writing (minimum grade C-)	3
First Year Experience (FYE)		0-4		First Year Experience (FYE)		0-4
				University Breadth Requirements		12
Discovery Learning Experience (DLE)		3		Discovery Learning Experience (DLE)		3
Multi-cultural Courses		3		Multicultural Courses		3
COLLEGE REQUIREMENTS				**COLLEGE REQUIREMENTS**		
Writing: (minimum grade C-)		3		Breadth Requirements		21
A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours. (See list of courses approved for second writing requirement.)				The College of Engineering requires 21 total credits, which includes 9 additional credits above and beyond the 12 University Breadth Requirement credits. Coursework may include courses from the University Breadth Requirement list and the **College of Engineering Supplemental Course list**. See **College of Engineering Breadth Requirements** for a detailed description. For timely progress toward degree completion, 3 credits must satisfy the University multicultural requirement. All courses must be passed with a minimum grade of C-.		
BREADTH REQUIREMENTS						
Six credits from each of the following groups		18				
Group A: Understanding and appreciation of the creative arts and humanities						
Group B: The study of culture and institutions over time						
Group C: Empirically based study of human beings and their environment						
MAJOR REQUIREMENTS				**MAJOR REQUIREMENTS**		
CISC 108	Introduction to Computer Science I (minimum grade C-)	3		CISC 108	Introduction to Computer Science I (minimum grade C-)	3
CISC 181	Introduction to Computer Science II (minimum grade C-)	3		CISC 181	Introduction to Computer Science II (minimum grade C-)	3
CISC 220	Data Structures (minimum grade C-)	3		CISC 220	Data Structures (minimum grade C-)	3
CISC 260	Machine Organization and Assembly Language (minimum grade C-)	3		CISC 260	Machine Organization and Assembly Language (minimum grade C-)	3
CISC 275	Introduction to Software Engineering	3		CISC 275	Introduction to Software Engineering	3
CISC 303	Automata Theory	3		CISC 303	Automata Theory	3
CISC 320	Introduction to Algorithms	3		CISC 320	Introduction to Algorithms	3
CISC 360	Computer Architecture	3		CISC 360	Computer Architecture	3
CISC 361	Operating Systems	3		CISC 361	Operating Systems	3
CISC 475	Advanced Software Engineering	3		CISC 475	Advanced Software Engineering	3
An additional nine credits of Computer Science numbered 301 or above, approved by the student's advisor		9		An additional twelve credits of Computer Science numbered 301 or above, approved by the student's advisor		12
Twelve credits in advanced courses in an advisor-approved CISC concentration		12		Twelve credits in advanced courses in an advisor-approved CISC concentration		12

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Students are encouraged to explore how other subject areas impact and are impacted by computer science. An approval form signed by the CISC advisor is required. Concentration courses must be distinct from other CISC requirements.				Students are encouraged to explore how other subject areas impact and are impacted by computer science. Approval by the student's CISC advisor is required. Concentration courses must be distinct from other CISC requirements and technical electives.		
MATH 205	Statistical Methods	3 - 4		MATH 205	Statistical Methods	3 - 4
	OR				OR	
MATH 350	Probability Theory			MATH 350	Probability Theory	
MATH 210	Discrete Mathematics (minimum grade C-)	3		MATH 210	Discrete Mathematics (minimum grade C-)	3
MATH 241/MATH 242	Analytic Geometry and Calculus A/B	8		MATH 241/MATH 242	Analytic Geometry and Calculus A/B	8
Twelve credits in science courses including one of the following sequences of laboratory science courses:		12		Twelve credits in science courses including one of the following sequences of laboratory science courses:		12
PHYS 207/PHYS 208	Fundamentals of Physics			PHYS 207/PHYS 208	Fundamentals of Physics	
	OR				OR	
CHEM 103/CHEM 104	General Chemistry			CHEM 103/CHEM 104	General Chemistry	
	OR				OR	
BISC 207/BISC 208	Introductory Biology			BISC 207/BISC 208	Introductory Biology	
	OR				OR	
GEOL 105/GEOL 115/GEOL 107	Geological Hazards and Laboratory, General Geology			GEOL 105/GEOL 115/GEOL 107	Geological Hazards and Laboratory, General Geology	
A course chosen from MATH 243, CISC 304, MATH 349, or a substitute from the list at http://www.cis.udel.edu/drupalWeb/mathrecommendations approved beforehand in writing by the advisor		3 - 4		A course chosen from CISC 304, MATH 349, or a substitute from the list at http://www.cis.udel.edu/drupalWeb/mathrecommendations approved beforehand in writing by the advisor		3 - 4
ENGL 312	Written Communications in Business	3		ENGL 312	Written Communications in Business	3
	OR				OR	
ENGL 410	Technical Writing			ENGL 410	Technical Writing	
CISC 355	Computers, Ethics, and Society	3		CISC 355	Computers, Ethics, and Society	3
CPEG 202	Introduction to Digital Systems	3 - 4				
ELECTIVES				**ELECTIVES**		
After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.				After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree.		
CREDITS TO TOTAL A MINIMUM OF		124		CREDITS TO TOTAL A MINIMUM OF		124