COMPUTER SCIENCE AND INFORMATION SYSTEMS B.S.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

A minimum of 120 credits are required and must include the following:

Requirement Description		Credits
COMPUTER SCIENCE (46 Credits)		
Core:		
CS 1210	Computer Programming I ¹	3
CS 1500	Seminar for New CS Majors	1
CS 1640	Discrete Structures	3
CS 2100	Intermediate Programming ¹	4
CS 2300	Advanced Programming	3
CS 2210	Computer Organization	3
CS 2240	Data Struc & Algorithms	3
CS 2500	Intro to Database Systems	3
CS 3240	Algorithm Design & Analysis	3
CS 3920	Senior Seminar	1
CEMS 1500	CEMS First Year Seminar ²	1
Capstone Experience		3
A comprehensive, pu during the Senior ye knowledge develope Students may choos	roject-based experience, typically occurring ar, that draws from the full breadth of skills and ed throughout a student's undergraduate program. e from the following courses:	
CS 3020	Compiler Construction	
CS 3050	Software Engineering ⁴	
CS 3060	Evolutionary Robotics	
CS 3110	Data Privacy	
CS 3250	Programming Languages	
CS 3280	Human-Computer Interaction	
CS 3540	Machine Learning	
CS 3750	Mobile App Development ³	
15 additional CS cre recommended for st 6 credits at the 3000	dits at the 2000-level or above (CS 2250 udents who wish to pursue graduate study in CS); -level or above.	15

BUSINESS ADMINISTRATION (24 Credits)					
BUS 1610	Financial Accounting	3			
BUS 2130	Decision Analysis	3			
BUS 2620	Managerial Accounting	3			
BUS 2300	Leadership & Org Behavior	3			
BUS 2500	Marketing Management	3			
BUS 2700	Operations Management	3			
BUS 2800	Managerial Finance	3			
BSAD Elective (2000-level or above)					
ECONOMICS (6 C	Credits)				
ECON 1400	Principles of Macroeconomics	3			
ECON 1450	Principles of Microeconomics	3			
MATHEMATICS (8 Credits)				
MATH 1234	Calculus I ⁴	4			
MATH 1248	Calculus II ⁴	4			
PROBABILITY & S	PROBABILITY & STATISTICS (6 Credits)				
STAT 2430	Statistics for Engineering	3			
STAT 2510	Applied Probability	3			
NATURAL SCIENCES (7 Credits)					
2 courses, one of wh chosen from:	ich must be a lab course that totals 4 credits,				
Astronomy (ASTR) - All courses					
Biology (BIOL) - All courses					
BioCore (BCOR) - All courses					
Chemistry (CHEM) - All courses					
Geology (GEOL) - All coureses					
Physics (PHYS) - All courses					
Plant Biology (PBIO) - All courses					
GEOG 1200	Weather, Climate & Landscapes				
GEOG 2230	Climatology: Concepts & Tools				
GEOG 2250	Global Environmental Change				
MMG 1650	Microbiology & Pathogenesis				
PSYS 2100	Learning, Cognition & Behavior				
PSYS 2200	Biopsychology				
PSYS 3100	Learning				

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PSYS 3200	Physiological Psychology w/lab	
PSYS 3250	Psychopharmacology	
PSYS 3205	Hormones and Behavior	

 C- or higher required in CS 1210 and CS 2100.
CEMS degree requirement designed for first-year students. Students entering the College after their first semester should work with their academic advisor to identify an appropriate substitution as approved for their major. The course used to fulfill the CEMS 1500 requirement cannot be used to fulfill another requirement in the major.

 ³ Satisfies CEMS Professional Development requirement.
⁴ MATH 1212 and MATH 1242 are acceptable substitutions for MATH 1234 and MATH 1248.