Bachelor of Science in Software Engineering

Catalog Year: 2051

Total Degree Credit Hours: 125

A-1	ENGL 1101 Composition I	3	
	ENGL 1102 Composition II	3	
A-2	MATH 1190 Calculus I	4	

Area A: Essential Skills (10 credit hours)
All Area A courses must be completed within the first 30 credit hours with a grade of C or higher.

B-1	ECON 1000 Contemporary Economic Issues	2	
B-2	COM 1100 Human Communication	3	

Area B: Institutional Options (5 credit hours)
COM 1100 is essential for Software Engineering major

C-1	ENGL 2110, 2111, 2112, 2120, 2121, 2122, 2130, 2131, 2132, or 2300	3	
C-2	ART 1107, MUSI 1107, DANC 1107, TPS 1107	3	

Area C: Humanities, Fine Arts, and Ethics (6 cr hrs)
Choose one course from each area.

D-1	MATH 2202 Calculus II	4

E-1	POLS 1101 American Government	3	

Prerequisites

CSE 1321/L and CSE 1322/L must have a minimum grade of 'B.'

CSE 1300 is highly recommended for students who are new to programming. MATH 1111, PHYS 111K and PHYS 1112K cannot be used as a free elective.

	Prerequisites		
Math/Science Electives Make an appointment with a CCSE Academic Advisor to discuss course options for this requirement	Varies	6	
PHYS 2211/L Principles of Physics I	MATH 1190	4	
CSE 3153 Database Systems	CSE 1322/L	3	
CSE 3801 Professional Practices and Ethics	CSE 1322/L	2	
CS 3305/L Data Structures	CSE 1322/L & (MATH 2345 / CSE 2300)	4	
CS 3503/L Computer Organization & Architecture	CSE 1322/L	4	
CS 3502 Operating Systems	CS 3503/L & CS 3305/L	3	
SWE 3313 Intro to Software Engineering	CSE 1322/L	3	
SWE 3623 Software Systems Requirements	SWE 3313 & (MATH 2345 / CSE 2300)	3	
SWE 3633 Software Architecture and Design	SWE 3313	3	
SWE 3643 Software Testing & Quality Assurance	SWE 3313	3	

All major courses must have a minimum grade of 'C,' except for CSE 1321/L and CSE 1322/L, which must have a minimum grade of 'B.'