

Bachelor of Science in Software Engineering (Effective Fall 2020)

UNIVERSITY CORE REQUIREMENTS			
	Hrs	ABET Student Outcomes	ABET Curriculum
EN 1103 English Composition I	3		C3
EN 1113 English Composition II	3		C3
Humanities Elective	3		C3
Humanities Elective	3		C3
Fine Art Elective	3		C3
Social Science Elective	3		C3
Social Science Elective	3		C3
GE 3513 (Writing)	3	O3, O4, O5, O7	C3
TOTAL UNIVERSITY CORE	24		
DEPARTMENTAL CORE NON-CSE REQMTS			
MA 1713 Calculus I	3		C1
MA 1723 Calculus II	3		C1
MA 3113 Linear Algebra	3		C1
Math elective: MA 2733 Cal III, MA 3053 Foundations of Math., MA 4143 Graph Theory, MA 4173 Number Theory	3		C1
IE 4613 Engineering Statistics I	3		C1, C5
CH 1213 Chemistry I	3		C1
CH 1211 Chemistry Lab	1		C1
Science Electives (select 2; 1 course must have lab component): PH 2213 Physics 1, PH 2223 Physics 2, CH 1223, Chem 2, CH 1221 Chem 2 lab, BIO 1134 Bio 1, BIO 1144 Bio 2	8		C1
TOTAL DEPARTMENTAL NON-CSE CORE	27		

DEPARTMENTAL REQUIREMENTS (71 hours)			
	Hrs	ABET Student Outcomes	ABET Curriculum
CSE 1011 Intro to CSE	1		
CSE 1284 Intro Comp Programming	4		C5
CSE 1384 Inter Comp Programming	4		C5
CSE 2383 Data Struc & Alg	3		C2, C5
CSE 2813 Discrete Structures	3		C1, C2, C5
CSE 2213 Methods and Tools for Software Development	3	O1	C2, C5
CSE 3183 Systems Prog	3	O7	C2, C5
CSE 3723 Computer Organization	3		C6, C7
CSE 3763 Legal & Ethical Issues	3	O4	C3, C5
CSE 4214 Intro Software Eng	4	O1, O2, O5	C2, C5
CSE 3213 SE Senior Project I	3	O2, O3	C4
CSE 3223 SE Senior Project II	3	O3, O5	C4
CSE 4233 Soft. Arch. and Design	3	O1	C2, C5
CSE 4283 Soft. Test and QA	3	O6	C2, C5
CSE 4733 Operating Systems I	3	O1	C2, C5
CSE 4833 Intro. to Anal. of Alg.	3	O1, O6	C2, C5
CSE 4223 or IE 4533 (Proj. Mgt)	3	O4	C2, C5
Technical Electives (6 hours must be CSE upper level)	15		C2
free electives	10		
TOTAL CSE REQUIRED	77		
Technical Electives:		ECE 3714 Dig Dev ECE 3724 Micro 1, ECE 4723 Micro 2, ECE 4733 Adv Micro, Support Systems, BIS 4523 Business prog with COBOL	
Simulation, IE 4533 Proj Mgmt, IE 4513 Eng Admin, IE 4624 Stats II, IE 4713 Ops Res			
any upper level CSE elective			
TOTAL HOURS IN PROGRAM			128