

Bachelor of Science in Computer Science (effective fall 2020)

UNIVERSITY CORE REQUIREMENTS			
	Hr	ABET Student Outcomes	ABET Curriculum
EN 1103 English Composition I	3		
EN 1113 English Composition II	3		
Humanities Elective	3		
Humanities Elective	3		
Fine Art Elective	3		
Social Science Elective	3		
Social Science Elective	3		
GE 3513 (Writing)	3	O3, O4, O5	C3
UNIVERSITY CORE REQUIREMENTS			24
DEPARTMENTAL NON-CSE REQUIREMENTS			
MA 1713 Calculus I	3		C9
MA 1723 Calculus II	3		C9
MA 3113 Linear Algebra	3		C9
Math elective: MA 2733 Calculus III, MA 3053 Foundations of Math., MA 4143 Graph Theory, MA 4173 Number Theory	3		C9
IE 4613 Engineering Statistics I or MA 4543 Intro Math Stat I or MA 4523 Intro To Probability or BQA 2113 Bus Stats Method 1	3		C9
CH 1213 Chemistry I	3		C10
CH 1211 Chemistry Lab	1		C10
Science Electives (one course of the 2 selections must have a 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	6		C10
DEPARTMENTAL NON-CSE REQUIREMENTS			25

DEPARTMENTAL REQUIREMENTS			
	Hr	ABET Student Outcomes	ABET Curriculum
CSE 1011 Intro to CSE	1		
CSE 1284 Intro Comp Programming	4		C5, C7
CSE 1384 Inter Comp Programming	4		C1, C5, C7
CSE 2383 Data Struc & Anl of Alg.	3	O1, O2	C1, C4, C5
CSE 2813 Discrete Structures	3		C4, C9
CSE 2213 Methods & Tools for Software Development	3	O2, O6	C1, C2, C6
CSE 3183 Systems Programming	3		C6, C7
CSE 3723 Computer Organization	3	O2	C2, C4, C6, C7
CSE 3763 Legal & Ethical Issues	3	O3, O4	C3
CSE 4714 Theory & Implementation of Programming	4	O2, O6	C1, C4, C7, C8
CSE 4833 Algorithms	3	O1	C4, C7
CSE 4733 Operating Systems I	3	O2	C1, C4, C6, C7
Technical Electives (18 hours must be CSE upper level)	27		
Free electives	15		
TOTAL CSE REQUIRED			79
TOTAL HOURS IN PROGRAM			128

Technical Electives:	ECE 3714 Dig Dev
MA 2743 Cal IV, MA 3253 Diff Eq, MA 4313 Numerical Analysis, MA 4523 Probability	ECE 3724 Micro 1, ECE 4723 Micro 2, ECE 4733 Adv Micro,
IE 3913 Eng Econ, IE 4773 Simulation, IE 4533 Proj Mgmt, IE 4513 Eng Admin, IE 4624 Stats II, IE 4713 Ops Res	BIS 4533 Decision Support Systems, BIS 4523 Business prog with COBOL
any upper level CSE elective	