

Bachelor of Science in Software Engineering (Effective Fall 2022)

UNIVERSITY CORE REQUIREMENTS	
	Hrs
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
TOTAL UNIVERSITY CORE	24
DEPARTMENTAL CORE NON-CSE REQMTS	
MA 1713 Calculus I	3
MA 1723 Calculus II	3
MA 3113 Linear Algebra	3
Math elective: MA 2733 Cal III, MA 3053 Foundations of Math., MA 4143 Graph Theory, MA 4173 Number Theory	3
IE 4613 Engineering Statistics I	3
CH 1213 Chemistry I	3
CH 1211 Chemistry Lab	1
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
TOTAL DEPARTMENTAL NON-CSE CORE	27

DEPARTMENTAL REQUIREMENTS	
	Hrs
CSE 1011 Intro to CSE	1
CSE 1284 Intro Comp Programming	4
CSE 1384 Inter Comp Programming	4
CSE 2383 Data Struc & Alg	3
CSE 2813 Discrete Structures	3
CSE 2213 Methods and Tools for Software Development	3
CSE 3183 Systems Prog	3
CSE 3724 Computer Organization	4
CSE 3763 Legal & Ethical Issues	3
CSE 4214 Intro Software Eng	4
CSE 3213 SE Senior Project I	3
CSE 3223 SE Senior Project II	3
CSE 4233 Soft. Arch. and Design	3
CSE 4283 Soft. Test and QA	3
CSE 4733 Operating Systems I	3
CSE 4833 Intro. to Anal. of Alg.	3
CSE 4223 or IE 4533 (Proj. Mgt)	3
Technical Electives (6 hours must be CSE upper level)	15
free electives	9
TOTAL CSE REQUIRED	77
Technical Electives:	IE 4713 Op Res
IE 3913 Eng Econ, IE 4113 Human Fac Eng, IE 4123 Psych of HCl, IE 4513 Eng Admin	IE 4733 Linear Prog I, IE 4773 Simulation
IE 4533 Proj Man, IE 4573 Process Impr Eng, IE 4623 Eng Stats II, IE 4624 Stats II, IE 4653 Indus QC I	BIS 4533 Decis Supp Sys, BIS 4523 Bus Prog with COBOL
Any upper level CSE, ECE, or MA elective	
TOTAL HOURS IN PROGRAM	128