

Software Engineering, B.S.S.W.E
College of Computer and Software Engineering
8 Semester Plan

Year 1 - Fall (16 credits)	Credits	Year 1 - Spring (15 credits)	Credits
ENGL 1101- Composition I [A1]	3	ENGL 1102- Composition II [A1]	3
MATH 1190- Calculus I or Higher [A2]	4	MATH 2202- Calculus II or Higher [D1]	4
ECON 1000- Contemporary Economic Issues [B1]	2	General Education – Science Process (STEM) [D2]	4
General Education – Arts & Culture of the World [C2]	3	CSE 1322- Programming & Problem Solving II Δ†	3
CSE 1321- Programming & Problem Solving I Δ†	3	CSE 1322L- Programming & Problem Solving II Lab Δ†	1
CSE 1321L- Programming & Problem Solving I Lab Δ†	1		
TOTAL	16	TOTAL	15
Year 2 - Fall (16 credits)	Credits	Year 2 - Spring (15 credits)	Credits
POLS 1101- American Government [E1]	3	General Education –Literature of the World [C1]	3
General Education - Cultural Perspectives [B2]	3	General Education –U.S. History [E2]	3
General Education – Science Process (STEM) [D2]	4	MATH 2332- Probability and Data Analysis	3
SWE 3313- Introduction to Software Engineering	3	CSE 3153- Database Systems	3
CSE 2300- Discrete Structures for Computing <i>or</i> MATH 2345- Discrete Mathematics	3	CS 3305- Data Structures	3
TOTAL	16	TOTAL	15
Year 3 - Fall (13 credits)	Credits	Year 3 - Spring (15 credits)	Credits
SWE 3623- Software Systems Requirements	3	SWE 3633- Software Architecture & Design	3
SWE 4324- User Centered Design	3	SWE 3643- Software Testing & Quality Design	3
CS 3503- Computer Organization & Architecture	3	CSE 3801- Professional Practices & Ethics	2
Math or Science Elective (1 of 2) **	4	CS 3502- Operating Systems	3
		Math or Science Elective (2 of 2) **	4
TOTAL:	13	TOTAL:	15
Year 4 - Fall (15 credits)	Credits	Year 4 - Spring (15 credits)	Credits
General Education – Social Sciences [E4]	3	General Education – World History [E3]	3
TCOM 2010- Technical Writing	3	SWE 4724- Software Engineering Project	4
SWE 4663- Software Project Management	3	Upper-Division Elective- List One <i>or</i> List Two	3
SWE 4713- SWE Application Domain	3	Free Elective (1 of 2)	2
Upper-Division Elective- List One	3	Free Elective (2 of 2)	3
TOTAL:	15	TOTAL:	15

Program Total: 120 Credit Hours

Δ Must be completed with grade of B or Better ***Recommended General Education Course** **†Milestone**

This academic map is a suggested four-year schedule of courses based on degree requirements in the undergraduate catalog. This sample schedule serves as a general guideline to help build a full schedule each term. Missing milestones could delay your program. Also see the current undergraduate catalog for a complete list of requirements, electives, and pre-requisites. This map is not a substitute for academic advisement. Note: Requirements are continually under revision, and there is no guarantee they will not be changed or revoked; contact the department and/or program area for current information.

**Elective should be selected from the following prefix: PHYS, CHEM, BIO, MATH. The following course will not count towards this requirement: MATH 1190, MATH 2202, MATH 2332, MATH 2345, MATH 3295 MATH 3316, MATH 3317, MATH 3318, MATH 3495, MATH 4495, PHYS 2211/L, PHYS 1111/L, PHYS 1112/L