

B.S. Software Engineering Degree (SSEN)

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

First Year

Fall

Course	Prerequisite	Credit
CS1000 Explorations in Computing		1
MA1161 Calculus with Technology	MA1031 or MA1032	5
CS1121 programming 1 or CS1131 Advanced programming	MA1031/32 concurrently	3/5
Essential Education: SHAPE		3
UN1015 College Write, Read,& Research		3
Total		15

Spring

Course	Prerequisite	Credit
CS1122 Programming 2	CS1121	3
MA2330 Linear Algebra	MA1161	3
Essential Education: Science		3
Essential Education: Arts and Culture		3
Free Elective - Any course		3
Activities for Wellbeing and Success		1
Total		16

Second Year

Fall

Course	Prerequisite	Credit
CS2311 Discrete Structures	CS1121/1131 MA1161	3
CS2321 Data Structures	CS1122/31	3
MA2720 Statistics	MA1161	4
Math or Science elective		3
Essential Education: Foundations of the Human World		3
Total		16

Spring

Course	Prerequisite	Credit
CS1142 Programming at HW/SW interface	CS1122	3
CS3425 Data Bases	CS2311 CS2321	3
CS3311 Formal Models of Computation	CS2311	3
Math or Science elective		3
Essential Education: Intercultural Competency		3
Activities for Wellbeing and Success		1
Total		16

Third Year

Fall

Course	Prerequisite	Credit
CS3421 Computer Organization		3
CS3141 Team Software Project		3
SE elective		3
CS3760 Front End Dev & Accessibility		3
Math or Science Elective		3
ENT3950 (Option 2)		1
Total		16

Spring

Course	Prerequisite	Credit
CS4770 Software Architecture		3
CS4321 Intro to Algorithms		3
SE elective		3
CS3712 Software Quality Assurance		3
Activities for Wellbeing and Success		1
ENT3960 (Option 2)		1
Total		14

Fourth Year

Fall

Course	Prerequisite	Credit
CS3000 Ethics in Computing		3
Technical elective		3
CS4791 Senior Design (Option 1) or ENT4950 (Option 2)		3/2
Technical elective		3
Free elective		3
Total		15

Spring

Course	Prerequisite	Credit
CS4792 Senior Design (Option 1) or ENT4960 (Option 2)		3/2
HU3120 Technology and Professional Communication		3
Technical elective		3
Free elective		3
Total		12

Grand Total = 120 Credits