

B.S. Computer Science - Computer Systems Concentration (SCS6)

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
Technical 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
Essential Education: Intercultural Competency		3
Free Elective - any course		3
Activities for Wellbeing and Success		1
Total		16

Third Year

Fall

Course	Prerequisite	Credit
CS3421 Computer Organization		3
CS3141 Team Software Project		3
OSM3000 Operations & Supply Chain Management		3
Technical elective		3
Free Elective - any course		3
Total		15

Spring

Course	Prerequisite	Credit
CS3411 Systems Programming		3
CS4321 Intro to Algorithms		3
CS3000 Ethics in Computing		3
Technical elective		3
Essential Education Experience		3
Total		15

Fourth Year

Fall

Course	Prerequisite	Credit
CS4461 Computer Networks	CS3411	3
CS3331 Concurrent	CS3411	3
SAT3343 Network Admin II or SAT3820 Wireless System Admin	CS3411 or SAT2343	3
CS4471 Computer Security	CS3411	3
Free elective - any course		2
Total		14

Spring

Course	Prerequisite	Credit
CS4121 Systems Programming		3
HU3120 Technology and Professional Communication		3
CS4411 Operating Systems	CS3331	3
Free elective - any course		3
Activities for Wellbeing and Success		1
Total		13

Grand Total = 120 Credits