

B.S. Computer Science - Application Concentration (SCS1)

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
Free 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
Technical elective		3
Applications focus area 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
Applications focus area course		3
Technical elective		3
Free Elective - any course		3
Total		15

Spring

Course	Prerequisite	Credit
CS3411 Systems Programming		3
CS4321 Intro to Algorithms		3
Applications focus area course		3
CS4xxx		3
Essential Education Experience		3
Total		15

Fourth Year

Fall

Course	Prerequisite	Credit
CS3000 Ethics in Computing		3
Free elective - any course		3
CS3331 Concurrent	CS3411	3
Essential Education: Intercultural Comp.		3
Application focus area course		3
Total		15

Spring

Course	Prerequisite	Credit
CS4121 Programming Languages		3
HU3120 Technology and Professional Communication		3
Application focus area course		3
Free elective - any course		3
Activities for Wellbeing and Success		1
Total		13

Grand Total = 120 Credits