

Undergraduate Academic Program Degree Map Attachment

Degree Program: Bachelor of Science, Computer Science - AY 2017-2018

Note:
 - Course categories:
Major required
Major elective
General Education
Support (math&sci)
Free Elective

First Year

Semester I - Fall	Course Number	Course category	Credits
(changed from CSC 101)	CSC 105 Survey of Computer Science	major	4
	CSC 110 Software Design & Programming I	major	4
	MAT 110 Precalculus §	free elective	3
	Writing I (W-I) gen ed Ω	gen ed	3
	gen ed (preferably SR) Ω ▲	gen ed	4
			Semester credits: 18

Semester II - Spring	Course Number	Course category	Credits
(changed from CSC 105)	gen ed, or CSC 105 if not taken first semester Ω	gen ed	3
	CSC 115 Software Design & Programming II	major	4
	gen ed (preferably SR) Ω ▲	gen ed	4
	MAT 220 Calculus I	support	4
			Semester credits: 15

Total First Year: 33
Cumulative Credits: 33

Second Year

Semester III - Fall	Course Number	Course category	Credits
	CSC 260 Data Structures & Algorithms	major	4
	MAT 221 Calculus II	support	4
	PHS 205 Digital Circuit Design	support	4
	gen ed (SR if not taken freshman year) Ω	gen ed	3
			Semester credits: 15

Semester IV - Spring	Course Number	Course category	Credits
	CSC 295 Computer Organization & Architecture	major	3
	CSC 300 Software Engineering I	major	4
	gen ed (SR if not taken freshman year) Ω	gen ed	3
	MAT elective (three-credit MAT course with MAT 220 or MAT 221 as a prerequisite)	support	3
	gen ed (SR if not taken freshman year) Ω	gen ed	3
			Semester credits: 16

Total Second Year: 31
Cumulative Credits: 64

Third Year

Semester V - Fall	Course Number	Course category	Credits
	CSC 381 Operating System Principles	major	3
	CSC elective / option	major	4
	MAT 214A Discrete Structures	support	4
	Science elective (chosen from list specified on flowsheet) ▲	support	4
			Semester credits: 15

Semester VI - Spring	Course Number	Course category	Credits
(changed from free el.)	CSC elective / option	major	4
	free elective or CSC elective / option	free elective	4

	gen ed Ω	gen ed	3	
	MAT 147 Statistics	support	3	
	gen ed Ω	gen ed	3	
				Semester credits: 17
				Total Third Year: 32
				Cumulative Credits: 96

Fourth Year

Semester VII- Fall	Course Number	Course category	Credits	
(changed from gen ed)	CSC 520 Computer Science Capstone Project Specification (specification for the capstone project implemented in CSC 521)	major	1	
	CSC elective / option	major	4	
	gen ed or CSC elective Ω	gen ed	3	
	gen ed Ω	gen ed	3	
	free elective or gen ed Ω	free elective	3	
				Semester credits: 14

Semester VIII - Spring	Course Number	Course category	Credits	
	CSC 521 Computer Science Capstone Project	major	3	
	free elective or gen ed Ω	free elective	3	
	CSC elective / option	major	4	
	free elective (if necessary)	free elective		
	free elective (if necessary)	free elective		
				Semester credits: 10
				Total Fourth Year: 24
				Cumulative Credits: 120

Additional Notes and Comments:

§ MAT 110 Precalculus is the appropriate entry-level Mathematics course for many Computer Science majors, but is *not* a required course. If your background permits, MAT 110 can be skipped, with MAT 220 Calculus I being taken in its place and future semester's MAT courses adjusted accordingly. If you are unsure as to whether to take MAT 110, please consult with the Chairperson of the Mathematics Department and/or with your advisor in the Computer Science Department. Taking MAT 110 will reduce the number of free elective credits by 3.

Ω All SSU students must satisfy general education ("gen ed") and writing requirements in the following areas: CEA, CS, FYS, HP, OC, PGR, QR, SR(2), WC, W-I, W-II, W-III (visit [General Education Curriculum Overview](#) for details). Note that W-II can be satisfied by using the CS major required course CSC 300, W-III can be satisfied by using the CS major required course CSC 521, QR can be satisfied by using the CS major required course MAT 147, and the two required SR courses can be satisfied by using two of the CS major required Science support courses

Ψ Students may take Summer semester courses as a means of either accelerating the date of graduation or of lightening the credit load during Fall/Spring semesters. Note that most General Education requirements and some Mathematics Support courses are available during the Summer semester. The availability of Computer Science courses during the Summer semester is generally limited to CSC 105 and CSC 110, with CSC 115 and CSC 260 offered occasionally.

▲ Science courses used to satisfy Computer Science major support course requirements must be chosen from a specific list - please see the flowsheet in effect the year you declared the Computer Science major for details. Choosing a science course that is *not* on the approved list will *not* satisfy a CS major science support course requirement and will result in a decrease in the number of free elective credits available and may result in your needing to take more than 120 credits in order to graduate.