

BACHELOR OF SCIENCE

Computer Science Major Courses 2019-2021

10 courses; Minimum 30 credits required; 24 credits must be from SU

Course #	Course Name	Grade	Credit
CSC54-184	Computer Science I		
CSC54-284	Computer Science II		
CSC54-384	Discrete Mathematics		
CSC54-394	Computer Organization		
CSC54-454	Algorithms		
CSC54-474	Programming Languages		
CSC54-644	Computer Systems		
CSC54-894	Senior Seminar in Software Engineering		
Major Field Test			
<i>Select two additional upper level, approved Computer Science courses (3-4cr each):</i>			
CSC54-XX4			
CSC54-XX4			

Universit electives and/or optional minor(s):

Required Supporting Courses:

Select one of the following:

		Grade	Credit
BIO50-123/121	Living Systems/Invest. Into Living Systems*		
BIO50-133/131	Molecular and Population Genetics/Invest. Genetics*		

Take the following:

CHE51-103/101	General Chemistry I/Lab		
PHY53-154	Fundamentals of Physics I		
MAT52-674	Linear Algebra		

Take one of the following:

MAT52-154	Calculus I		
MAT52-164	Applied Multivariable Calculus I		

Take one of the following:

MAT52-254	Calculus II		
MAT52-264	Applied Multivariable Calculus II		

Select one additional course from the following:

MAT52-114	Introduction to Statistics		
PHY53-164	Fundamentals of Physics II		
PHY53-404	Electronics		
CHE51-203/201	General Chemistry II/Lab		
BIO50-123/121	Living Systems/Invest. Into Living Systems*		
BIO50-133/131	Molecular and Population Genetics/Invest. Genetics*		
PHY53-454	Math Methods in Physical Science II		
	Approved Upper level CSC or MAT course^		

**The same course cannot be used to satisfy more than one area within the required supporting course section.*

^ Substitution card must be submitted for approved course; course cannot be double counted in major and required support course sections.

Courses in the Required Supporting course area may be used in Exploration and Breadth

General Education Requirements

At least 30 total credits required; minimum 3 credits per requirement.

General Education - Part I

Take one of the following first semester seminars:

UST05-014	First Year Seminar		
UST05-214	Advanced Entry Seminar		

Foreign Language (three semesters of the same language)

Social Justice Course (may double count with any requirement):

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Two Fitness/Recreational Activity courses (must be different topics):

General Education - Part II: Exploration & Breadth (6 total courses)

CSC54-XXX courses cannot be used to satisfy E&B requirements.

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:

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Social Sciences:

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Fine Arts:

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Select one additional course from TWO of the four areas: Humanities, Natural Science, Social Science and Fine Arts. Neither course may come from the department (3 digit prefix) used above. EX: If you took PSY33-104 Principles of Psychology as a social science, you may not select another PSY33-XXX course to apply in this section.

*Public Speaking, College Writing and Creative Writing courses may not count in E&B.

University Graduation Requirements:

Minimum of 127 credits:

Cumulative GPA > 2.0

GPA > 2.0 for Major and/or Areas of Concentration

All grades C- or higher in major/minor/core?

At least 64 credits completed at Southwestern

No more than 56 credits of any 5 digit prefix

Major credits completed (min 30 required)

60% of Major courses completed at Southwestern (24cr)

Gen Ed has minimum of 30 credits

Minor (optional):

Minimum 18 credits

Minimum of 12 credits taken at Southwestern

Minimum 2.0 minor courses CGPA

Other:

Degree Audit Completed (Due one year before grad date)

Grad Application Submitted (Due start of final semester)

Approved to be part time in last semester?
