Bachelor of Arts
Computational Mathematics (2021-2023)

Student name:

Major courses

14 courses; 34 credits must be from SU
Must earn a C- or better in all major courses.

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		
MAT52-164	Modern Calculus I		
MAT52-264	Modern Calculus II		
MAT52-364	Modern Calculus III		
MAT52-674	Linear Algebra		
MAT52-754	Differential Equations		
Select two courses from the following:			
CSC54-414	Operations Research		
CSC54-514	Database Management Introduction to		
CSC54-524	Numerical Analysis		
MAT52-574	Probability and Mathematical Statistics		
Select one additional approved upper level course in Math or Computer Science:*			

*Any 3 or 4 credit CSC or MAT course at or above the 300 level will serve as an approved course. PHY53-454 Math Methods in Physical Science II may also be taken as an approved, upper level course.

Select one of the following Capstone options:			
MAT52-894	Senior Seminar in Math Modeling		
CSC54-894	Senior Seminar in Software Engineering		

Total number of credits counting in the major (minimum 30 credits required): 0

General Education Requirements

		Grade	Credit
Part I			
UST05-014/214	First Year or Advanced Entry Seminar		
	Semester #1 of Foreign Language:		
	Semester #2 of Foreign Language:		
	Semester #3 of Foreign Language:		
	Social Justice course:		
	Fitness/Recreational Activity course #1:		
	Fitness/Recreational Activity course #2: (must be different from FRA topic #1)		

Part II
Exploration and Breadth - 6 courses

CSC54-XXX and MAT52-XXX courses cannot be used to satisfy E&B requirements. Additionally, any other course contributing to Computational Mathematics which is used to satisfy a major requirement cannot be used in the E&B section.
*Public Speaking, College Writing & Creative Writing courses cannot count in E&B.

		Grade	Credit
	Take one Humanities course:		
	Take one Natural Science course:		

	Take one Social Science course:		
	Take one Fine Arts course:		

Take one additional course from two of the four areas listed above. Neither course may come from the department (3 digit prefix) used in the four areas above. EX: If you took PSY33-104 Principles of Psychology as a social science, you may not select another PSY course in the below section.

		Grade	Credit
	Course #1:		
	Course #2:		

Total number of credits counting only in the Gen Ed section (30 credit minimum required): 0

University electives

		Grade	Credit

Total number of university electives/minor credits: 0

Total number of credits from a minor (use minor template to determine correct credit count). Enter credit amount here:

*Minors are optional.

Total number of earned credits counting in major, general education and university elective/minor areas: 0

University Graduation Requirements:

Students must earn a minimum of 127 earned credits to earn a Bachelor's degree; a minimum of 157 credits is required for dual degrees.
Cumulative GPA must be greater than a 2.0.
Major/Area of Concentration must have a GPA > 2.0.
All grades in a major/minor/core/required supporting courses/certification areas must be a C- or higher . Some majors/minors require higher grades.
At least 64 credits must be completed at Southwestern.
No more than 56 credits may be earned from any 5 digit prefix (except Art, Education and Theatre majors). See catalog for full rules.
60% of Major courses must be completed at Southwestern.
Majors must have a minimum of 30 credits.
General Education area must have a minimum of 30 credits.
No transfer credits taken outside of SU in final 32 credit hours without approval from the Registrar's Office (except for an approved Study Abroad program).
A limit of 1 FRA may be taken as a university elective and counted towards graduation requirements. Any additional FRA's, taken as a university elective, will be deducted from total earned credit.