Bachelor of Science Computational Mathematics (2021-2023)

Student name:

Major courses

15 courses; 35 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 cours	es from the following:		
	•		
CSC54-414	Operations Research		
CSC54-514	Database Management Introduction to		
CSC54-524 MAT52-574	Numerical Analysis Probability and Mathematical Statistics		
IVIA 132-374	Probability and iviatifematical statistics		
Select two additi	onal approved upper level courses in Math or Computer Science*:		
	<u> </u>		
	t CSC or MAT course at or above the 300 level will serve as an approved course. PHY53-454 Math Metl an approved, upper level course.	hods in Physical S	Science II may
Select one of the	e 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):

Required Supporting Courses:

Courses in this section are not counted in the 30 credit minimum for the major. Courses in this section may be used in the Exploration and Breadth section.

	section may be used in the Exploration and Breadth section.	Grade	Credit
CHE51-103/101	General Chemistry I/Chemical Methods & Techniques I		
PHY53-154	Fundamentals of Physics I		
Choose one Introd	luctory Biology course from the following:		
BIO50-123/121	Living Systems/Investigation Into Living Systems		
3IO50-133-131	Molecular & Population Genetics/Investigation Into Genetics		
onocco ono adam	onal course from the following:		
BIO50-123/121	Living Systems/Investigation Into Living Systems**		
BIO50-123/121 BIO50-133-131	Living Systems/Investigation Into Living Systems** Molecular & Population Genetics/Investigation Into Genetics**		
BIO50-123/121 BIO50-133-131 CHE51-203/201	Living Systems/Investigation Into Living Systems**		
	Living Systems/Investigation Into Living Systems** Molecular & Population Genetics/Investigation Into Genetics** General Chemistry II/Chemical Methods & Techniques II		
BIO50-123/121 BIO50-133-131 CHE51-203/201 MAT52-364	Living Systems/Investigation Into Living Systems** Molecular & Population Genetics/Investigation Into Genetics** General Chemistry II/Chemical Methods & Techniques II Modern Calculus III		

Total number of credits from Required Supporting Courses:

General Edu	ication Requirements	Grade	Credit	
<i>Part I</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				
contributing to Con section.	MAT52-XXX courses cannot be used to satisfy E&B requirements. Additionally, any other course inputational Mathematics which is used to satisfy a major requirement cannot be used in the E&B 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:		 -	
(3 digit prefix) used	al course from two of the four areas listed above. Neither course may come from the department of in the four areas above. EX: If you took PSY33-104 Principles of Psychology as a social not select another PSY course in the below section. Course #1:	Grade	Credit	
	Course #2:			
Total number of cre	edits counting only in the Gen Ed section (30 credit minimum required):			
University e	lantivon	01.	0 19	
Offiversity e	iectives	Grade	Credit	
				
Total number of un	niversity electives/minor credits:			
	niversity electives/minor credits:			_
*Minors are opti	edits from a minor (use minor template to determine correct credit count). Enter credit amount here: ional.			
•	rrned credits counting in major, general education and university elective/minor areas:			
University G	raduation Requirements:			
Students must earn Cumulative GPA m	Graduation Requirements: In a minimum of 127 earned credits to earn a Bachelor's degree; a minimum of 157 credits is required the greater than a 2.0. It is centration must have a GPA > 2.0.	for dual degrees.		

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.