BACHELOR OF ARTS

Computational Mathematics Major Courses 2019-2021

14 courses; Minimum 30 credits required; 34 credits must be from SU

Take one of the following:		Grade	Credit	Select one additional approved upper level course in Math or Computer Science*:			
MAT52-154	Calculus I						
MAT52-164	Applied Multivariable Calculus I				*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.		
Take one of the	e following:			upper lever cou	130.		
MAT52-254	Calculus II			Select one of th	e following:	Grade	Credit
MAT52-254	Applied Multivariable Calculus II			MAT52-894	Senior Seminar in Math Modeling		
				CSC54-894	Senior Seminar in Software Engineering		
Take one of the following:				Major Field Tes	st		
MAT52-354	Calculus III						
MAT52-364	Applied Multivariable Calculus III						
				University Elec	ctives and/or optional minor(s):		
Take the follow	ving:						
CSC54-184	Computer Science I						
CSC54-284	Computer Science II						
CSC54-384	Discrete Mathematics						
CSC54-394	Computer Organization						
CSC54-454	Algorithms						
MAT52-674	Linear Algebra						
MAT52-754	Differential Equations						
Select two cou	rses from the following:						
	Operations Research						
CSC54-414	Operations Research						
CSC54-414 CSC54-514	Database Management						

General Education Requirements

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

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

CSC54-XXX and MAT52-XXX courses cannot be used to satisfy E&B requirements.

General Education - Part I

Additionally, PHY53-454, if taken to satisfy a major requirement, may not be used in the *Take one of the following first semester seminars:* E&B section. UST05-014 First Year Seminar UST05-214 Advanced Entry Seminar Select one course from each of the four following areas: Humanities: Foreign Language (three semesters of the same language) Natural Sciences: Social Sciences: *Social Justice Course (may double count with any requirement):* Fine Arts: 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. Two Fitness/Recreational Activity courses (must be different topics): *Public Speaking, College Writing and Creative Writing courses may not count in E&B. **University Graduation Requirements:** Minimum of 127 credits: **Minor (optional):** Cumulative GPA > 2.0Minimum 18 credits GPA > 2.0 for Major and/or Areas of Concentration Minimum of 12 credits taken at Southwestern All grades C- or higher in major/minor/core? Minimum 2.0 minor courses CGPA At least 64 credits completed at Southwestern No more than 56 credits of any 5 digit prefix Other: Major credits completed (min 30 required) Degree Audit Completed (Due one year before grad date) 60% of Major courses completed at Southwestern (34cr) Grad Application Submitted (Due start of final semester) Gen Ed has minimum of 30 credits Approved to be part time in last semester?