BACHELOR OF ARTS IN COMPUTATIONAL MATHEMATICS

Stu ID: _____ **Date:** _____

Name: _____ **Advisor:** _____

Major Computational Mathematics - BA **Catalog:** 2018-19

Minor: _____ **Grad date:** _____

MAJOR COURSES

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

CSC54-184	Computer Science I		
CSC54-284	Computer Science II		
CSC54-384	Discrete Mathematics		
CSC54-394	Computer Organization		
CSC54-454	Algorithms		
MAT52-154	Calculus I		
MAT52-254	Calculus II		
MAT52-354	Calculus III		
MAT52-674	Linear Algebra		
MAT52-754	Differential Equations		

Select two courses from the following:

CSC54-414	Operations Research		
CSC54-514	Database Management		
CSC54-524	Introduction to Numerical Analysis		
MAT52-574	Probability and Mathematical Studies		

Select one additional upper level course in MAT or CSC (3-4cr each):

Select one of the following:

MAT52-894	Senior Seminar in Math Modeling		
CSC54-894	Senior Seminar in Software Engineering		
Math Field Test			

**Statistics (52-114) cannot be used to satisfy any MAT major or minor courses.

University Electives or Minor Courses (optional):

GENERAL EDUCATION REQUIREMENTS

At least 30 total credits required, minimum 3 credits required per course

General Education Part I

First Year/Adv. Entry Seminar:

UST05-014 or UST05-214			

Foreign Language (3 sem.)

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

2 different FRAs:

Total Earned Credits:	0
Total Southwestern Credits:	
Total Major Credits:	0
Total Gen Ed Credits:	0

Exploration & Breadth - Gen Ed Part II

Six total courses

MAT and CSC major and elective courses cannot be used to satisfy Exploration & Breadth requirements.

Select one course from each of the four following areas:

Humanities:

Natural Sciences:

Social Sciences:

Fine Arts:

Select two additional courses from the four areas listed above.
Courses must be from different areas and from different subjects from above courses:

*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

Notes:

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*	_____
Less than 56 credits of any 5 digit prefix**	_____
Major credits completed (min 30 required)	_____
60% of Major courses completed at Southwestern (34cr)	_____
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?   _____