General Education Requirements and Degree Information: BACHELOR OF SCIENCE IN COMPUTATIONAL MATHEMATICS

ID:
Name:
Major: Computational Mathematics

Update:
Advisor:
Catalog: 2014-2015 **≈ Degree**

Course	Grade	Credit
FY/Adv. Entry Seminar:		
05-012/212		
Foreign Language (4 sem.)		
I.		
II.		
III.		
IV.		
Social Justice Course:		
Intercultural Perspective Course:		
2 different FRAs:		

B.S. students need take only 7 of the 8 highlighted requirements

Course	Grade	Credit
Humanities: 2 courses, may be same dept.:		
Natural Sciences:		
Exp. Lab:	B.S. CORE	
MAT or CSC:	B.S. CORE	
Social Sciences: 2 courses, must be diff. depts:		
Fine Arts Lecture:		
Fine Arts Performance:		
B.S. Core:		
BIO 50-102, 50-112		
BIO 50-122, 50-162		
CHE51-153/151		
CHE51-163/161		
MAT 52-154	MAJOR	
1 from: 52-114, 52-254, or 54-184 *major specific	MAJOR	
PHYS 53-154		
PHYS 53-164		

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area. A major requires at least 30 credits, 60% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance.

COMPUTATIONAL MATHEMATICS MAJOR (BS)

Major Courses:	Grade	Credit
CSC54-184 Computer Science I		
CSC54-284 Computer Science II		
CSC54-384 Discrete Mathematics		

Electives:	Grade	Credit

CSC54-394 Computer Organization		
CSC54-454 Algorithms		

1 additional upper-level CSC course: CSC54-XX4

MAT52-154 Calculus I		
MAT52-254 Calculus II		
MAT52-354 Calculus III		
MAT52-524 Intro to Numerical Analysis		
MAT52-674 Linear Algebra		
MAT52-754 Differential Equations I		

1 additional upper-level MAT course: MAT52-XX4

MAT52-894 Senior Seminar in Math Modeling OR CSC54-894 Senior Seminar in Software Engineering		

Required Supporting Courses within B.S. Core

Paideia:

Cluster:		
Course 1:		
Course 2:		
Course 3:		
Seminar:		
Distinction:		

Total credits w/gen ed: _____

***Minimum of 127 credits required.*