BACHELOR OF SCIENCE, MAJOR IN MATHEMATICS WITH TEACHER CERTIFICATION

For Students Selecting a Minor as a Second Teaching Field

The requirements include:

Code	Title	Hours
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3363	Euclidean Geometry	3
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4385	Mathematical Problem Solving	3
Total Hours		36

For Students Who do not Select a Minor

Code	Title	Hours
MATH 1420	Calculus I	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3363	Euclidean Geometry	3
MATH 3300	Introduction To Math Thought	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4377	Algebraic Structures	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Select one of the following options:		6
OPTION 1: (Analysis Emphasis)		
MATH 4361	Introductory Analysis	
An advanced MATH course		
OPTION 2: (Statistics Emphasis)		
MATH/STAT 4371	Thry & Appl Of Prob & Stat I	
An advanced STAT course		
Total Hours		42

Code	Title	Hours
Bachelor of Science, Major in Mathematics with Teacher Certification		
Core Curriculum		
Component Area I (Communication)		6
Component Area II (Mathematics)		3
Component Area III (Life and Physical Science)		8
Component Area IV (Language, Philosophy, and Culture)		3
Component Area V (Creative Arts)		3
Component Area VI (U.S. History)		6
Component Area VII (Political Science/Government)		6

Component Area VIII (Social and Behavioral Sciences)		3
Component Area IX (Component Area Option)		4
Degree Specific Requirements		
Science Courses for Science Majors - Select 8 hours from the following: [1]		8
BIOL 1411 & BIOL 1413	General Botany and General Zoology	
CHEM 1411 & CHEM 1412	General Chemistry I and General Chemistry II	
8 hours from GEOL 1403, GEOL 1404, GEOL 1405, GEOG 1401		
COSC 1436	Programming Fundamentals I	4
ENGL 2332	Wrld Lit I: Before 17 Century [2]	3
PHYS 1411 & PHYS 1422	Introduction To Physics I and Introduction To Physics II	8
or PHYS 2426	Heat, Waves & Modern Physics	
Major Core		
MATH 1420	Calculus I [3]	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4
MATH 3300	Introduction To Math Thought	3
MATH 3363	Euclidean Geometry	3
MATH 3377	Intro To Linear Alg & Matrics	3
MATH 3379	Statistical Mthods In Practice	3
MATH 4367	The Evolution Of Mathematics	3
MATH 4377	Algebraic Structures	3
MATH 4384	Survey Of Mathematical Ideas	3
MATH 4385	Mathematical Problem Solving	3
Major		
Select one of the following Options:		6
Option 1:		
MATH 4361	Introductory Analysis	
An Advanced MATH elective		
Option 2:		
STAT 4371	Thry & Appl Of Prob & Stat I	
An advanced STAT elective		
Minor		
CISE 3384	The Teaching Profession (Junior)	3
CISE 4364	Mth Tch Secondary Schools (Senior)	3
CISE 4378	Content Literacy	3
CISE 4379	Differentiated Pedagogy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary (Senior)	3
CISE 4396	Std Tch Secondary Classroom (Senior)	3
CISE 4397	Std Tch Secondary Classroom (Senior)	3
MATH Elective		6
Elective		1
Total Hours		123

1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).

2 ENGL 2332 satisfies both Core Curriculum for Component Area IV as well as B.S. degree-specific requirements.

3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

First Year

Fall	Hours	Spring	Hours
Component Area III - Science Course for Science Major	4	Component Area III - Science Course for Science Major	4
Component Area IV	3	Component Area V	3
COSC 1436	4	ENGL 1302[1]	3
ENGL 1301[1]	3	MATH 1430	4
MATH 1420[2]	4	MATH 3379	3
	18		17

Second Year

Fall	Hours	Spring	Hours
HIST 1301[3]	3	HIST 1302[3]	3
MATH 2440	4	MATH 3363	3
MATH 3300	3	MATH 3377	3
PHYS 1411	4	PHYS 1422 or 2426	4
POLS 2305[4]	3	POLS 2306[4]	3
	17		16

Third Year

Fall	Hours	Spring	Hours
Component Area VIII	3	CISE 4378	3
MATH 4367	3	CISE 4380	3
MATH 4377	3	MATH 4384	3
MATH 4385	3	Elective	1
CISE 3384	3	MATH elective	3
Option 1 or 2	3	Option 1 or 2 (3 additional hours from same option)	3
	18		16

Fourth Year

Fall	Hours	Spring	Hours
CISE 4364	3	CISE 4394	3
CISE 4379	3	CISE 4396	3
ENGL 2332[5]	3	CISE 4397	3
MATH elective	3		
	12		9

Total Hours: 123

1. Satisfies Core Curriculum requirement for Component Area I (Communications).
2. Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
3. Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4. Satisfies Core Curriculum requirement for Component Area VII (Political Science).
5. Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).