

Degree program: __Bachelor of Arts with a Major in Mathematics__

Program Student Learning Outcomes
1. Students will be able to communicate effectively in written and oral forms, work successfully in teams, and understand ethical responsibilities.
2. Students will be able to think critically and be prepared for life-long learning.
3. Students will be able to continue graduate studies in Mathematics or related field.
4. Students will have a working understanding of the major disciplines in Mathematics, including Algebra, Analysis, Geometry/Topology, and Probability/Statistics. Students will also have the ability to read and write proofs and a working knowledge of mathematics software tools.
5. Students will be able to apply quantitative reasoning to solve problems in a discipline other than Mathematics. With this knowledge students are enabled to enter the workforce in areas such as business, finance, engineering, computer science, actuarial science, government, statistics, or secondary education.

Worksheet #2 – Program Checklist – List required courses and indicate level/s of delivery

By putting (I, E, R or A) into Each Box

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I = Students are INTRODUCED to material
E = The material is EMPHASIZED and taught in depth
R = The material is REINFORCED with additional exposure to the information
A = The Competencies/Skills are being APPLIED

List of courses required for the degree	Program-level outcomes addressed				
	#1 Students will be able to communicate effectively in written and oral forms, work successfully in teams, and understand ethical responsibilities.	#2 Students will be able to think critically and be prepared for life-long learning.	#3 Students will be able to continue graduate studies in Mathematics or related field.	#4 Students will working under the major discipline Mathematics, including Algebra, Analysis, Geometry/Topology, and Probability/Statistics. Students will also have the ability to read and write proofs and a working knowledge of mathematics software tools.	problems in a discipline other than Mathematics. With this knowledge students are enabled to enter the workforce in areas such as business, finance, engineering, computer science, actuarial science, government, statistics, or secondary education.
MATH 2413		I	I	I	
MATH 2414		E	E	E	
MATH 2415		E	E	E	
COSC 1336	I	I			I
COSC 1136	I	I			I
MATH 3310		I	I	I	
MATH 3330		E	E	E	
MATH 3365		I	I	I	I
MATH 4310		E	E	E	
MATH 4335		E	E	E	
MATH 4345	I	E	E	E	I
Liberal Arts Elective (12 sch)					I

**Worksheet #3 - Order Courses by Outcome and Level of Delivery (Courses may be listed more than once)
Indicate level of delivery by checking the appropriate box) Add cells as necessary**

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Program-level outcome addressed (write out each program level outcome)	Level of Material Delivery (List classes in order of material delivery)				Courses List courses (or groups of courses) in order of material delivery for each outcome (I, E, R and then A). Courses may provide more than one level of material delivery.	Curriculum Component/s (Class Activities) that Address Outcome	Means of Assessment
	I	E	R	A			
#1 Students will be able to communicate effectively in written and oral forms, work successfully in teams, and understand ethical responsibilities.	X				COSC 1336		
	X				COSC 1136		
	X				MATH 4345		
#2 Students will be able to think critically and be prepared for life-long learning.	X				MATH 2413		
		X			MATH 2414		
		X			MATH 2415		
	X				COSC 1336		
	X				COSC 1136		
	X				MATH 3310		
		X			MATH 3330		
	X				MATH 3365		
		X			MATH 4310		
		X			MATH 4335		
#3 Students will be able to		X			MATH 4345		
	X				MATH 2413		

continue graduate studies in Mathematics or related field.		X			MATH 2414		
		X			MATH 2415		
	X				MATH 3310		
		X			MATH 3330		
	X				MATH 3365		
		X			MATH 4310		
		X			MATH 4335		
		X			MATH 4345		
#4 Students will have a working understanding of the major disciplines in Mathematics, including Algebra, Analysis, Geometry/Topology, and Probability/Statistics. Students will also have the ability to read and write proofs and a working knowledge of mathematics software tools.	X				MATH 2413		
		X			MATH 2414		
		X			MATH 2415		
	X				MATH 3310		
		X			MATH 3330		
	X				MATH 3365		
		X			MATH 4310		
		X			MATH 4335		
	X			MATH 4345			
#5 Students will be able to apply quantitative reasoning to solve problems in a discipline other than Mathematics. With this knowledge students are enabled to enter the workforce in areas such as business, finance, engineering, computer science, actuarial science, government, statistics, or secondary education.	X				COSC 1336		
	X				COSC 1136		
	X				MATH 3365		
	X				MATH 4345		
	X				Liberal Arts Electives		

Worksheet #4 - Needed Modifications, if any, for Curriculum Alignment

Goal: Degree programs are coherent in that they demonstrate 1) sequencing, 2. progression or increasing complexity, and 3) linkages between and among program core courses.

Curriculum Modifications Needed	Why Needed?
We do not think that we need to modify this program at this time, but we will reconsider this question during Fall 2008.	