

BA/BS in Mathematics Ciiriculum Map

Courses and Activities Mapped to BA/BS in Mathematics Outcome Set - 2012

	Objective 1: Use and construct logical arguments Students will learn to use and construct logical arguments.				Objective 2: Communicate mathematics effectively Students will communicate mathematics effectively.				-	Objective 3: Ready to use mathematical skills postbac Students will demonstrate that they are ready to use their mathematical skills in a post-baccalaureate position.	
	Outcome 1.1: Students will construct direct proofs.	Outcome 1.2: Students will construct proofs by contradiction	Outcome 1.3: Students will construct proofs by induction.	Outcome 1.4: Students will construct examples/counterexample Students will construct examples and counterexamples.	Outcome 2.1: State mathematical results accurately Students will state mathematical results accurately for a research problem.	Outcome 2.2: Conduct an independent investigation Students will conduct an independent investigation of their problem.	Outcome 2.3: Oral presentation of research Students will make an oral presentation of their research report that is accessible to their peers.	Outcome 2.4: Witten report of research Students will make a detailed written report of their research.	•	Outcome 3.1: Prepared to persue graduate studies in math Students will demonstrate mastery of undergraduate mathematics that will allow them to pursue graduate studies in the mathematical sciences.	Outcome 3.2: Prepared to pursue careers utilizing knowledge Students will demonstrate mastery of mathematics and related content that will allow them to pursue careers utilizing their knowledge.
Courses and Learning Activitie	s										
MATH 122 Analytic Geometry	I	I	I		I	I	I				
MATH 131 Calculus I	I	I	I		I	P	I				
MATH 132 Calculus II	Р	Р	P		Р	Р	Р				I
MATH 231 Calculus III	Р	Р	Р		Р	R	Р				I
MATH 380 Intro to Abstract Mathematics Printed on: 02/25/2016 01:28	:10 PM (F	ST)	I				Р			I	Р

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MATH 410 Intro to Analysis							Р		Р	Р	
MATH 412 Abstract Linear Algebra					P	P	R		P	Р	
MATH 413 Linear Algebra 1					P	P	R		P	Р	
MATH 320 Discrete Mathematics	Р	Р	Р		P	R	Р			Р	
MATH 323 College Geometry	R	P	P		R	P	P		P		
MATH 333 Differential Equations	R	R	R		R	R	Р				
MATH 341 Probability and Statistics	Р	R	R		R	R	Р		P	Р	
MATH 411 Theory of Numbers						Р	Р		R	R	

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MATH 430 Real Variables I							R		R	R	
MATH 431 Complex Variables							R		R	R	
MATH 441 Theory of Probability	R	R	R		R	Р	R		R	R	
MATH 490 Topics in Mathematics	R	R	R		R	R	R		R	R	

Legend: Introduced Practiced Reinforced

Last Modified: 04/02/2013 08:01:15 AM CST

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