

Undergraduate Degree Programs Curricular Mapping  
University of Rhode Island - Department of Mathematics - 2/15/2007

Student Learning Outcomes	Courses																					
	141	142	243	215	244	307	316	322	381	382	425	435	436	437	438	441	442	447	451	452	462	471
1. Develop depth and breadth in mathematical knowledge essential to the degree/program	X	X	X	X		X	X				X	X	X	X	X						X	
2. Know fundamental concepts of calculus and linear algebra.	X	X	X	X	X					X	X			X	X		X		X	X	X	X
3. Apply mathematical reasoning based in definitions, axioms and theorems to read and write mathematical proofs.							X	X	X	X	X	X	X				X	X				
4. Read and understand mathematical language and symbols.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X
5. Formulate and evaluate mathematical conjectures.										X		X	X					X				
6. Use technology to do calculations, visualizations, and test hypotheses.	X	X	X	X	X					X				X	X		X			X		X
7. Communicate mathematical ideas in written, oral, and/or electronic form.	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X				X	X
8. Apply mathematical concepts and techniques to solving applied problems.	X	X	X	X	X						X			X	X	X	X		X	X		
9. Be able to treat a large, complex mathematical problem.				X										X		X						X
10. Explore advanced perspectives of mathematics and appreciate its beauty.							X		X		X	X	X			X	X	X	X		X	

Undergraduate Degree Programs Curricular Mapping  
University of Rhode Island - Department of Mathematics - 2/15/2007

Student Learning Outcomes	Instruments			
	Proficiency subscores in final exams	Written projects or assignments	Oral presentations	Student Surveys
1. Develop depth and breadth in mathematical knowledge essential to the degree/program	X			
2. Know fundamental concepts of calculus and linear algebra.	X			
3. Apply mathematical reasoning based in definitions, axioms and theorems to read and write mathematical proofs.	X			
4. Read and understand mathematical language and symbols.	X			
5. Formulate and evaluate mathematical conjectures.	X			
6. Use technology to do calculations, visualizations, and test hypotheses.		X		
7. Communicate mathematical ideas in written, oral, and/or electronic form.		X	X	
8. Apply mathematical concepts and techniques to solving applied problems.		X		
9. Be able to treat a large, complex mathematical problem.		X	X	

Undergraduate Degree Programs Curricular Mapping  
University of Rhode Island - Department of Mathematics - 2/15/2007

10. Explore advanced perspectives of mathematics and appreciate its beauty.				X
-----------------------------------------------------------------------------	--	--	--	---