## Assurance of Student Learning 2018-2019 Ogden College of Science & Engineering Department of Mathematics 049 Master of Arts in Mathematics

Use this page	Use this page to list learning outcomes, measurements, and summarize results for your program. Detailed information must be completed							
in the subsequent pages.								
Student Lean	rning Outcome 1: Students will be able to communicate mathematics in a written form at a level commensu	rate with tha	t of students					
completing a	master's degree.							
Instrument 1	Paper/project from MATH 501, Introduction to Probability and Statistics I. A score of 8 or higher on a 10-point multipart rubric							
	will demonstrate students' ability to communicate mathematically. We expect at least 75% of students to m	eet this learn	ning					
	outcome.							
Based on your	Met	Not Met						
Student Lean	rning Outcome 2: Students will be able to write proofs of theorems in mathematics.							
Instrument 1	Assessments from MATH 503, Introduction to Analysis (Math 512). A score of 8 or higher on a 10-point n	nultipart rub	ric for					
	problems given on assessments will indicate that students are able to use multiple strategies in problem solving situations. We							
	expect at least 75% of students to meet this learning outcome.							
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 2. Met Not Met								
Student Learning Outcome 3: Students will demonstrate their capacity to use multiple strategies and appropriate technology to apply								
mathematics in problem solving situations and will justify their solutions with sound logic.								
Instrument 1	Assessments from MATH 512, Geometry from an Advanced Perspective. A score of 8 or higher on a 10-point multipart rubric will							
	demonstrate students' ability to choose appropriate strategies, including the use of technology, to solve problems and justify their							
	solutions. We expect at least 75% of students to meet this learning outcome.							
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3. Met								
Student Learning Outcome 4: Students will demonstrate their capacity for collaboration in the mathematics classroom as a learner and as a								
teacher.								
Instrument 1	Discussion boards from MATH 511, Algebra from an Advanced Perspective. A score of 8 or higher on a 10-point multipart rubric							
	will demonstrate students' ability to collaborate when working towards solutions to problems. We expect at least 75% of students							
to meet this learning outcome.								
Based on your	Met	Not Met						
Program Summary (Briefly summarize the action and follow up items from your detailed responses on subsequent pages.)								
We have no plans for changes to the program during the 2019-2020 academic year.								

Student Learning Outcome 1					
Student Learning Outcome	Students will be able to communicate mathematics in a written form at a level commensurate with that of students				
	completing a master's degree.				
Measurement Instrument 1	Paper/project from MATH 501, Introduction to Probability and Statistics I.				
Criteria for Student Success	A score of 8 or higher on a 10-point multipart rubric will demonstrate students' ability to communicate				
	mathematically.				
Program Success Target for this Measurement		75%	Percent of Program Achieving Target	80%	
Methods	Discussion boards, midterm, and the final were considered. Fourteen students were assessed.				
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 1.				Met	Not Met
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)					
We have no plans for any changes to the program at this time.					
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)					
We will continue to monitor student success on this learning outcome.					

Student Learning Outcome 2					
Student Learning Outcome	Students will be able to write proofs of theorems in mathematics.				
Measurement Instrument 1	Assessments from MATH 503, Introduction to Analysis (Math 512).				
Criteria for Student Success	A score of 8 or higher on a 10-point multipart rubric for problems given on assessments will indicate that students				
	are able to use multiple strategies in problem solving situations.				
Program Success Target for this Measurement		75%	Percent of Program Achieving Target	78%	
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Methods	Discussion boards, homework, midterm, and the final were considered. Nine students were assessed.				
Based on your results airely or highlight whether the program met the goal Student Learning Outcome?					
based on your results, circle or nighinght whether the program met the goal Student Learning Outcome 2.			Met	Not Met	
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)					
We have no plans for any changes to the program at this time.					
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)					
We will continue to monitor student success on this learning outcome.					

Student Learning Outcome 3					
Student Learning Outcome	Students will demonstrate their capacity to use multiple strategies and appropriate technology to apply mathematics				
	in problem solving situations and will justify their solutions with sound logic.				
Measurement Instrument 1	Assessments from MATH 512, Geometry from an Advanced Perspective.				
Criteria for Student Success	A score of 8 or higher on a 10-point multipart rubric will demonstrate students' ability to choose appropriate				
	strategies, including the use of technology, to solve problems and justify their solutions.				
Program Success Target for this Measurement		75%	Percent of Program Achieving Target	75%	
Methods	Discussion boards, homework, midterm, and the final were considered. Eight students were			assessed.	
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 3. Met Not Met					Not Met
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)					
We have no plans for any changes to the program at this time.					
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)					
We will continue to monitor student success on this learning outcome.					

Student Learning Outcome 4					
Student Learning Outcome	Students will demonstrate their capacity for collaboration in the mathematics classroom as a learner and as a teacher.				
Measurement Instrument 1	Discussion boards from MATH 511, Algebra from an Advanced Perspective.				
Criteria for Student Success	A score of 8 or higher on a 10-point multipart rubric will demonstrate students' ability to collaborate when working				
	towards solutions to problems.				
Program Success Target for this Measuremen		75%	Percent of Program Achieving Target	71%	
Methods	Discussion boards, homework, midterm, and the final were considered. Seven students were assessed.				
Based on your results, circle or highlight whether the program met the goal Student Learning Outcome 4. Met					Not Met
Actions (Describe the decision-making process and actions planned for program improvement. The actions should include a timeline.)					
We have no plans for any changes to the program at this time.					
Follow-Up (Provide your timeline for follow-up. If follow-up has occurred, describe how the actions above have resulted in program improvement.)					
We will continue to monitor student success on this learning outcome.					