

# Course Assessment Report - 4 Column

## Great Basin College Courses (MATH) - Math

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Conversion - convert between degree and radian measure1 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 1, Test 1, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q1: 7.75/10 Average Score on T1: 25.25/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Basic Trigonometry - derive basic trig functions using right triangles1 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 1, Test 1, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q1: 7.75/10 Average Score on T1: 25.25/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. Students had little trouble with this item from the beginning but had more difficulty in applications. These were picked up better on T1.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Trig values of angles - give the trig values of certain angles on a unit circle1 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 1, Test 1, Final Exam</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q1: 7.75/10 Average Score on T1: 25.25/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. Students had little trouble with this item from the beginning but had more difficulty in applications. These were picked up better on T1.</p> <p><b>Criterion Met:</b></p>	

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
		Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Trig functions and identities - explain the relationships between the trig functions via identities1 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	<b>Assessment Measure:</b> Quiz 2, Test 1, Final Exam <b>Assessment Measure Category:</b> Assignment - Written <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q2: 6.25/10 Average Score on T1: 25.25/35 I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. By the time we completed chapter 6, nearly all students had no trouble explaining the basic relationships.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Identities - verify trigonometric identities1 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	<b>Assessment Measure:</b> Quiz 2, Test 1, Final Exam <b>Assessment Measure Category:</b> Assignment - Written <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q2: 6.25/10 Average Score on T1: 25.25/35 I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. This material is always difficult for students to grasp in a first course on trig; this semester was no exception.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Trig equations - solve trigonometric equations12 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b>	<b>Assessment Measure:</b> Quiz 2, Quiz 3, Test 1, Test 2, Final Exam <b>Assessment Measure Category:</b> Exam/Quiz - Standardized <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q2: 6.25/10 Average Score on Q3: 7.57/10 Average Score on T1: 25.25/35 Average Score on T2: 25.9/35 I included the material that needed reinforcement from the quizzes on the tests; likewise, material that still required reinforcement was added to the	

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05/18/2012 <b>Course Outcome Status:</b> Active		final.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Relational formulas - apply sum, difference, double-angle, and other relational formulas1 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	<b>Assessment Measure:</b> Quiz 3, Test 2, Final Exam <b>Assessment Measure Category:</b> Exam/Quiz - Standardized <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q3: 7.57/10 Average Score on T2: 25.9/35 I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Laws of sines and cosines - solve triangles using the laws of sines and cosines2 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	<b>Assessment Measure:</b> Quiz 4, Test 2, Final Exam <b>Assessment Measure Category:</b> Exam/Quiz - Standardized <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q4: 8.25/10 Average Score on T2: 25.9/35 I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	
Courses (MATH) - Math - MATH 127 - Precalculus II - Vectors - demonstrate familiarity with vectors and their operations2 (Created By Courses (MATH) - Math) <b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	<b>Assessment Measure:</b> Quiz 4, Test 2, Final Exam <b>Assessment Measure Category:</b> Exam/Quiz - Standardized <b>Criterion:</b> N/A	05/18/2012 - Average Score on Q4: 8.25/10 Average Score on T2: 25.9/35 I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final.  <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Application in the real world - apply trigonometry and vectors to the real world12 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 2, Quiz 4, Test 1, Test 2, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q2: 6.25/10 Average Score on Q4: 8.25/10 Average Score on T1: 25.25/35 Average Score on T2: 25.9/35</p> <p>I included the material that needed reinforcement from the quizzes on the tests; likewise, material that still required reinforcement was added to the final.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Sigma notation - make effective use of sigma notation3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 5, Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q5: 8.00/10 Average Score on T3: 25.8/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. This was difficult for students at first. I made sure to include problems in &amp;#61523; notation on the final.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Arithmetic and geometry - describe and define arithmetic and geometric sequences3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b></p>	<p><b>Assessment Measure:</b> Quiz 5, Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q5: 8.00/10 Average Score on T3: 25.8/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. Some had trouble with the problem on Q5, and several had trouble on T3.</p>	

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<p>05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>		<p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Proofs - use the Principle of Mathematical Induction in proofs3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 5, Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>		
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Binomial Theorem - explain and apply the Binomial Theorem3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 6, Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q6: 7.625/10 Average Score on T3: 25.8/35</p> <p>I included the material that needed reinforcement from the quiz on the test. Although several had trouble on Q6, that was not as big an issue by T3. I excluded it from the final exam.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Conic sections and trivial cases - distinguish the three major conic sections and the trivial cases3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Quiz 6, Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on Q6: 7.625/10 Average Score on T3: 25.8/35</p> <p>I included the material that needed reinforcement from the quiz on the test; likewise, material that still required reinforcement was added to the final. This is always an issue at first; as such, it was examined three times.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	

Course Outcomes	Means of Assessment & Criteria / Tasks	Results	Action & Follow-Up
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Graphs - graph conic sections3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on T3: 25.8/35</p> <p>Material that still required reinforcement was added to the final ? including two graphs. Graphing is a perennial problem for students, but I provided some guidance in the questions on the final exam.</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Conic sections in the real world - explain occurrences of conic sections in the real world3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on T3: 25.8/35</p> <p>Material that still required reinforcement was added to the final. Students always avoid applications, but they were able to identify the uses of conics, and to an extent how they are derived</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Polar coordinates - relate the rationale behind polar coordinates3 (Created By Courses (MATH) - Math)</p> <p><b>Next Assessment:</b> 2016-2017</p> <p><b>Start Date:</b> 05/18/2012</p> <p><b>Course Outcome Status:</b> Active</p>	<p><b>Assessment Measure:</b> Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b> Exam/Quiz - Standardized</p> <p><b>Criterion:</b> N/A</p>	<p>05/18/2012 - Average Score on T3: 25.8/35</p> <p>Material that still required reinforcement was added to the final. We also discussed this verbally in class</p> <p><b>Criterion Met:</b> Yes</p> <p><b>Reporting Period:</b> 2011-2012</p>	
<p>Courses (MATH) - Math - MATH 127 - Precalculus II - Conversion - convert between rectangular and polar coordinates3 (Created By Courses (MATH) - Math)</p>	<p><b>Assessment Measure:</b> Test 3, Final Exam</p> <p><b>Assessment Measure Category:</b></p>	<p>05/18/2012 - Average Score on T3: 25.8/35</p> <p>Students did this quite well, but they had some trouble with finding an angle using the inverse</p>	

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<b>Next Assessment:</b> 2016-2017 <b>Start Date:</b> 05/18/2012 <b>Course Outcome Status:</b> Active	Exam/Quiz - Standardized <b>Criterion:</b> N/A	tangent. <b>Criterion Met:</b> Yes <b>Reporting Period:</b> 2011-2012	