





<b>Planned Course: Geometry</b>		<b>Course Number: 302/303</b>		<b>Department: Mathematics</b>	
<b>Unit:</b>		<b>Grade Level:</b>		<b>Date Approved: 7/15/2008</b>	
<b>Estimated Time:</b>		<b>Level/Track:</b>			
<b>PA Academic Standards</b>	<b>Core Concepts (in question format)</b> • Skills/Knowledge	<b>Activities/Strategies/Study Skills</b> (identify some activities as remedial or enrichment activities)	<b>Assessments</b> (include types and topics)		

<p>2.4.11.A Use direct proofs, indirect proofs or proof by contradiction to validate conjectures.</p> <p>2.4.11.B Construct valid arguments from stated facts.</p> <p>2.4.11.C Determine the validity of an argument.</p>	<p>▶ 3. What is the difference between a postulate and a theorem and how are they used to formulate logical reasoning.</p> <p>▶ 3A. The students will be able to distinguish between postulates and theorems.</p> <p>▶ 3B. The students will be able to identify and write conditional statements and their converses.</p> <p>▶ 3C. The students will be able to use basic compound logical statements.</p> <p>▶ 3D. The students will be able to apply the properties of real numbers from algebra.</p> <p>▶ 3E. The students will be able to use the properties of congruence.</p>	<p>▶ Overhead transparencies</p> <p>▶ Chalkboard Examples</p> <p>▶ PowerPoint Examples</p> <p>▶ Textbook Exercises</p> <p>▶ Paper Folding</p> <p>▶ Worksheets</p> <p>▶ Geometer's Sketchpad</p> <p>▶ Cooperative Group Work</p>	<p>▶ Graded homework</p> <p>▶ Classroom observation</p> <p>▶ Online Quiz/Test</p> <p>▶ In Class Quiz/Test</p>		
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	<ul style="list-style-type: none"> <li> 3F. The students will be able to use deductive reasoning to prove statements.</li> <li> 3G. The students will be able to complete proofs using two-column deductive reasoning.</li> <li> 3H. The students will be able to use laws of logic to solve problems and to analyze real-life data. (Laws of Syllogism)</li> </ul>		
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