Planned Course: Algebra II	Course Number: M305	Department: Mathematics
Unit: Systems of Linear Equations & Inequalities Estimated Time: 18 days	Grade Level: 8-12 Level/Track:	Date Approved: 7/15/08

PA Academic Standards	Core Concepts (in question format) • Skills/Knowledg	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)
ASSESSMENT ANCHOR **M11.C.3.1.2** Relate slope to perpendicularity and/or parallelism (limit to linear algebraic expressions; slope formula provided on the reference sheet). **M11.D.2.1** Write, solve and/or graph linear equations and inequalities using various methods. **M11.D.2.1.4** Write and/or solve systems of equations using graphing, substitution and/or elimination (limit systems to 2 equations).	Describe the three ways that two lines graphed on the same plane interact? • Students will be able to determine how two lines intersect from solving their system. • Students will be able to find the point of intersection from graphing the system and using a visual inspection. • Students will be able to find the point of intersection from solving the system by substitution. • Students will be able to find the point of intersection from solving the system by linear combination method.	1. Students will use identify intersecting, parallel, and coincident lines. 2. Students will graph two lines on the same plane. 3. Students will inspect graphs for points of intersections. (estimate) 4. Students will employ substitution method to solve analytically for points of intersection. 5. Students will employ linear combination to solve analytically for points of intersection.	• Graded homework • Classroom observation • Online Quiz/Test • In Class Quiz/Test • Participation • Graded classwork • Projects