

# COURSE SYLLABUS

<b>Course Title:</b>	Topics in Contemporary Math	<b>Date submitted:</b>	Spring 2014 (AAC: 14-92)
<b>Department:</b>	Mathematics and Science		
<b>Curriculum:</b>	Mathematics		
<b>Course Descriptors:</b> Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	<b>Course Code:</b> (eg. ACC 101)	MAT*135	<b>Prerequisites:</b> C- or better in Prealgebra & Elementary Algebra (MAT*085) or Introductory Algebra (MAT*094) or Elementary Algebra Foundations (MAT*095) OR placement into credit level mathematics or placement into Intermediate Algebra (MAT*137) or Elementary Algebra/Intermediate Algebra Combined (MAT*139)
	<b>Course Type:</b>	L	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio		
	<b>Elective Type:</b>	G/LAS/M	
	AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science		
	<b>Credit Hours:</b>	3	<b>Corequisites:</b>  None
	<b>Developmental:</b> (yes/no)	No	
	Lecture:	3	
	Clinical:	0	
	Lab:	0	
Studio	0		
Other:	0		
<b>Contact Hours:</b>	TOTAL: 3		
<b>Class Maximum:</b>	30	<b>Other Requirements:</b>  None	
<b>Semesters Offered:</b>	F/S		
<b>Catalog Course Description:</b>	A practical course offering an exposure to a wide range of topics with an emphasis on critical thinking, problem solving and the real number system. Topics may include logic, financial management, set theory, metric system and probability and statistics. This course is intended for students registered in Criminal Justice, Business Office Technology, DARC, Human Services, Visual Fine Arts, Photography, and Graphic Design.		
<b>Topical Outline:</b> List course content in outline format.	1. Critical Thinking 2. Problem Solving 3. Numbers in the Real World 4. Financial Management 5. Statistical Reasoning 6. Probability 7. Exponential Astonishment		

	8. Math and Politics
<p><b>Outcomes:</b> Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p><b>Upon successful completion of this course, the student will be able to do the following:</b></p> <p><b>COURSE:</b></p> <ol style="list-style-type: none"> <li>1. understand basic strategies for word problem applications</li> <li>2. perform measurement conversions (metric system)</li> <li>3. perform percent word problems</li> <li>4. understand basic interest applications in the real world</li> <li>5. understand the basic ideas of statistics, and interpret statistical graphics</li> <li>6. understand the fundamentals of probability and its relevance to most Americans</li> <li>7. apply the rules of exponential growth and exponential decay</li> <li>8. understand the connection between mathematics and politics</li> </ol> <p><b>PROGRAM:</b> <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p><b>N/A</b></p> <p><b>GENERAL EDUCATION:</b> <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <p><b>7. Quantitative Reasoning</b> -Students will learn to recognize, understand, and use the quantitative elements they encounter in various aspects of their lives. Students will develop a habit of mind that uses quantitative skills to solve problems and make informed decisions.</p> <p><b>Demonstrates:</b> Interprets numerical information and applies sufficient laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p> <p><b>Does Not Demonstrate:</b> Misinterprets numerical information or insufficiently applies laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p>
<p><b>Evaluation:</b> List how the above outcomes will be assessed.</p>	<p><b>Assessment will be based on the following criteria:</b></p> <p>quizzes examinations</p>
<p><b>Instructional Resources:</b></p> <p>List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p><b>Required:</b> None</p> <p><b>Desired:</b> None</p>
<p><b>Textbook(s)</b></p>	<p>Essentials of Using and Understanding Mathematics: A Quantitative Reasoning Approach by Bennett &amp; Briggs Pearson/Addison Wesley Publishing Company</p>