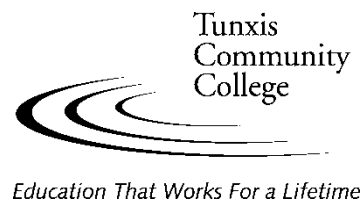


# COURSE SYLLABUS



<b>Course Title:</b>	Math for the Liberal Arts	<b>Date submitted:</b>	Spring 2014 (AAC: 17-25)	
<b>Department:</b>	Mathematics & 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) <span style="float: right;">MAT*146</span> <b>Course Type:</b> <span style="float: right;">L</span> A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio	<b>Prerequisites:</b>		
	<b>Elective Type:</b> <span style="float: right;">G/LAS/M</span> 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	C- or better in Intermediate Algebra (MAT*137), Intermediate Algebra for Liberal Arts (MAT*137L), OR Elementary Algebra/Intermediate Algebra Combined (MAT*139), OR appropriate placement test score		
	<b>Credit Hours:</b> <span style="float: right;">3</span> <b>Developmental:</b> (yes/no) <span style="float: right;">No</span> Lecture: <span style="float: right;">3</span> Clinical: <span style="float: right;">0</span> Lab: <span style="float: right;">0</span> Studio <span style="float: right;">0</span> Other: <span style="float: right;">0</span> TOTAL: <span style="float: right;">3</span>	<b>Corequisites:</b>		
	<b>Contact Hours:</b> Lecture: <span style="float: right;">3</span> Clinical: <span style="float: right;">0</span> Lab: <span style="float: right;">0</span> Studio <span style="float: right;">0</span> Other: <span style="float: right;">0</span> TOTAL: <span style="float: right;">3</span>	None		
	<b>Class Maximum:</b> <span style="float: right;">30</span> <b>Semesters Offered:</b> <span style="float: right;">F/S/Su</span>	<b>Other Requirements:</b>		
		None		
	<b>Catalog Course Description:</b>	This course is designed to meet the needs and program requirements of liberal arts and/or general studies majors. The course content includes the following core topics: inductive and deductive reasoning, sets, logic, number theory, geometry, probability and statistics.		
	<b>Topical Outline:</b> List course content in outline format.	<u>Core Topics:</u> (To be covered by all sections) <ul style="list-style-type: none"> <li>• Inductive and Deductive Reasoning</li> <li>• Operations on Sets</li> <li>• Logic</li> <li>• Number Theory</li> <li>• Geometry</li> <li>• Probability and Statistics</li> </ul>		

	<p>Other topics may be selected from but not limited to:</p> <ul style="list-style-type: none"> <li>• Systems of Numeration</li> <li>• The Metric System</li> <li>• Consumer/Financial Mathematics</li> <li>• Voting and Apportionment</li> </ul>
<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>Course outcomes upon successful completion of this course.</b></p> <ol style="list-style-type: none"> <li>1. use inductive and deductive reasoning, especially as applied to mathematical patterns and application problems</li> <li>2. use and apply basic concepts from Number Theory to solve problems</li> <li>3. apply mathematical concepts from sets, symbolic logic, and geometry to solve problems</li> <li>4. apply basic concepts in probability and descriptive statistics—including probability models, frequency distributions, correlation—and uses normal distribution tables</li> </ol> <p><b>PROGRAM:</b> <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></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 Exams Projects and group work, where assigned</p>
<p><b>Instructional Resources:</b> 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> Classrooms with sufficient seating and board space</p> <p><b>Desired:</b></p>
<p><b>Textbook(s)</b></p>	<p><u>A Survey of Mathematics with Applications</u> by Angel, Abbott, and Runde; Current Edition. Pearson/Addison Wesley.</p> <p>OR</p> <p>Thinking Mathematically by Blitzer; Current Edition</p>