

**COURSE TITLE:** E-MAP Mathematics  
3<sup>rd</sup> Edition

**AUTHORS:** Lial/Hornsby/Schneider

**TEXT:** College Algebra & Trigonometry

**PUBLISHER:** Addison Wesley

**INSTRUCTOR:** Sam Evers

**ASSISTANT:** Corey Kline

**COURSE DESCRIPTION:** This is a course in Precalculus mathematics. The course is computer-assisted, which means students will use the computer (along with the instructor) to complete the course. Topics include equations and inequalities (linear and quadratic), the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), as well as the study of trigonometric (circular) functions and inverse trigonometric functions, and includes work with trigonometric equations, complex numbers, polar coordinates, and DeMoivre's Theorem.

**HOMEWORK:** Homework will be assigned for each section. For each test period students will be allowed to drop one homework grade. The homework grade will be calculated by taking the average of the remaining grades on the homework sections assigned for the test period. Homework must be completed before the expiration date and ***you must click the "Submit Homework" button in order for it to count.***

**QUIZZES:** There will be a quiz given on each section covered. For each test period you will be allowed to drop one section quiz grade. The quiz grade will be calculated by taking the average of the remaining grades on the quizzes assigned for the test period. Quizzes must be completed before the expiration date.

**WORKING FROM HOME:** The software can be installed on the student's personal computer. Internet access and the appropriate plug-ins are required in order to use the website where the notes, homework, and exercises are found. The website for the software is [www.coursecompass.com](http://www.coursecompass.com). Login with your login ID (first initial, last name) and password (math). Click into your course and select the installation wizard from the selection of buttons on the left hand side of the screen. Install **all** components.

**ATTENDANCE POLICY:** Students are required to attend class every day. Excuses for missed days must be brought to the instructor immediately upon return to class. Excessive absence is grounds for dismissal from the program.

### 5 Week Class (Summer 2008)

Date	Sections	Due Date
July 7	R.4 Factoring Polynomials R.5 Rational Expressions	
July 8	1.1 Linear Equations 1.2 Applications & Modeling with Linear Equations	
July 9	1.4 Quadratic Equations 1.5 Applications & Modeling with Quadratic Equations	
July 10	Field Trip – Greensboro	
July 11	1.6 Other Types of Equations 2.2 Functions	
July 14	2.7 Function Operations and Composition 3.1 Quadratic Functions and Models	
July 15	<b>Review &amp; TEST 1</b>	
July 16	3.3 Zeros of Polynomial Functions 3.4 Polynomial Functions, Graphs, Applications, and Models	
July 17	3.5 Rational Functions, Graphs, Applications, and Models 4.1 Inverse Functions	
July 18	Field Trip – Nucor	
July 21	4.2 Exponential Functions 4.3 Logarithmic Functions 4.4 Evaluating Logarithms and the Change-of-base Theorem	
July 22	4.5 Exponential & Logarithmic Equations 4.6 Applications and Models of Exponential Growth and Decay	
July 23	<b>Review &amp; TEST 2</b>	
July 24	5.1 Angles 5.2 Trigonometric Functions 5.3 Evaluating Trigonometric Functions	
July 25	Field Trip - Hydro Plant / McAbee	
July 28	6.1 Radian Measure 6.2 The Unit Circle & Circular Functions	
July 29	6.3 Graphs of the Sine and Cosine Functions 6.4 Graphs of the Other Circular Functions	
July 30	7.5 Inverse Circular Functions 7.6 Trig Equations	
July 31	Field Trip - Boeing Plant	
August 1	9.1 Systems of Linear Equations 9.4 Partial Fractions	
August 4	<b>Review &amp; TEST 3</b>	
August 5	Field Trip – Barber Motor Sports	
August 6	11.1 Sequences and Series 11.2 Arithmetic Sequences and Series 11.3 Geometric Sequences and Series	
August 7	<b>Retake MPT</b>	