

# MAC 1114 – College Trigonometry

## Summer 2010 Online Course

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**Professor:** Richard Russell  
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**Office Hours:** Onsite: MW 3:00-4:30 pm  
TR 3:00- 6:00 pm  
Online: Fridays from 11:30 am -2:30 pm  
(through Atlas e-mail or WebCT instant messenger)

### I. COURSE DESCRIPTION

The prerequisite for this course is a minimum grade of C in MAC 1102, MAC 1104, or MAC 1105, or an appropriate score on a placement test. Topics include a symbolical, graphical and numerical analysis of trigonometric functions, solutions of plane triangles, polar coordinates, and vectors. Applications emphasizing connections of trigonometry to the real world and to other disciplines will be included. Technology tools will be utilized in addition to analytical methods. This is a Gordon Rule course. A minimum grade of C is required if MAC 1114 is used to satisfy Gordon Rule and the general education requirements. Credit will not be given for both MAC 1114 and MAC 1132, or for both MAC 1114 and MAC 1142, or for both MAC 1114 and MAC 1147.

### II. REQUIRED TEXTS AND INSTRUCTIONAL MATERIALS

**Textbook & Software Access Card:** *Trigonometry: A Unit Circle Approach*, 8<sup>th</sup> edition, by Michael Sullivan, packaged together with an access card for MyMathLab for WebCT/Blackboard. Please purchase this package at the Valencia bookstore on West campus to ensure that you have the correct version of MyMathLab. Other versions of the software are not compatible with WebCT and cannot be used with this course. You may also elect to purchase an access card only (also available at the West campus bookstore) as it will contain electronic access to the full textbook. Choose this option only if you believe that you will have the same level of success with an online text as you would with a traditional hard copy.

**Graphing Calculator:** A model from the TI-83 or TI-84 series by Texas Instruments

### III. CLASS FORMAT AND TECHNOLOGY REQUIREMENTS

This course is taught online using the required text, software access, and calculator mentioned in the previous section. You will be required to perform weekly readings from the text, complete scheduled homework assignments and quizzes using the MyMathLab software, and participate actively as directed in the class discussion forums. Therefore, you must have reliable and consistent access to the internet in order to remain enrolled in and complete this course.

### **III. CLASS FORMAT AND TECHNOLOGY REQUIREMENTS (continued)**

Additionally, you will be required to take a proctored mid-term exam and a proctored final exam at a Valencia Community College testing center or other approved proctoring facility. Therefore, you must be able to travel to a Valencia campus or approved proctoring facility for these two exams in order to complete this course. Please also note that a Valencia ID card is required to be admitted to any testing center. ID cards are free and available at the Student Development Office on each campus.

### **IV. GRADING POLICY**

The final grade that you earn in this class will be determined by your performance in the following categories:

#### Online Homework Assignments (20% of final grade)

Homework assignments can be attempted an unlimited number of times until you achieve a mastery of the concepts from each section. The last attempt before the Tuesday noon deadline will count as your grade for that assignment. Note that you should not access the corresponding Quiz until you've completed your homework assignment for that chapter. Please plan to start working on your homework as early as possible each week.

#### Online Module Quizzes (20% of final grade)

Module quizzes will generally have a 90-minute time limit and will contain questions similar to those included in your homework assignments. On-screen help options are not available during quizzes, however. Each quiz can be taken two times, and the higher of the two scores will count as your grade. Don't wait until the last minute! Computer problems will not be a valid excuse for a missed quiz.

#### Class Discussion Forums (10% of final grade)

The discussion forums are a platform for you to think, share, and learn with your fellow classmates in a collaborative and constructive environment. Since you won't be in a physical classroom with other students each week, the discussion forums will take the place of the normal interaction that you would experience with your classmates in a face-to-face class.

Discussion prompts will be posted for each module. For each topic, you must make at least ONE original posting by adding a new thread, and reply to at least TWO postings by other students. All postings must be written using correct grammar and spelling with complete sentences. In other words, communication must be professional and not in the style that you would use when text-messaging or instant-messaging with friends.

#### On-Campus Midterm Exam (25% of final grade)

The midterm exam must be taken at a Valencia testing center or an approved proctoring facility. You will make arrangements with the professor during the ten days prior to the exam as to the location of your exam. The exam will be closed-book and closed-notes, however your calculator may be used on at least part of the exam. A study guide will be provided for you to help you prepare for the exam.

### On-Campus Final Exam (25% of final exam)

The final exam must be taken at a Valencia testing center or an approved proctoring facility. You will make arrangements with the professor during the ten days prior to the exam as to the location of your exam. The exam will be closed-book and closed-notes, however your calculator may be used on at least part of the exam. A study guide will be provided for you to help you prepare for the exam.

At the end of the semester, your final grade will be determined according to the scale defined below:

A (90%-100%); B (80%-89.9%); C (70%-79.9%); D (60%-69.9%); F (0%-59.9%)

## **V. COMMUNICATION**

Communication between the professor and students is extremely important in an online class. There are two primary modes of communication that I will use to communicate with you throughout the semester.

To contact a student individually about a matter pertaining only to that student, I will use Atlas e-mail accounts. If for some reason you are not in the habit of checking your Atlas e-mail account on a regular basis, you should forward it to an e-mail address that you do check on a consistent basis. You are expected to check your Atlas e-mail at least every other day to make sure that you are receiving messages from me on a timely basis.

You should also use my Atlas e-mail address to communicate with me. I will respond to all e-mails within 48 hours during the week. Response times to e-mails sent over the weekend may vary.

To communicate with the class as a whole rather than individually, I will use the home page of the class web site on WebCT to post short announcements, messages, and reminders. You should check this section first as soon as you log into WebCT each time to make sure that you don't miss any important messages. You are expected to log in to WebCT at least every other day during the semester.

## **VI. MAKE-UP POLICY**

No make-up homework, quizzes, or exams will be given. There will be NO exceptions to this policy. However, the lowest quiz grade and the lowest homework grade will be omitted at the end of the semester.

## **VII. TECHNOLOGY PROBLEMS**

Technical issues such as power outages and unavailability of Internet connections can and likely will happen. Do not wait until the last minute to complete your assignments, quizzes, and exams. Technical issues are not an acceptable excuse for work that has not been completed by the due date. If your computer freezes, restarts, or loses its internet connection during a homework assignment or quiz, the session will be marked as "Incomplete". When you resume the session, your answers (and remaining time for a quiz) will be loaded from your previous session.

Should you need to contact technical support for issues relating to your homework assignments or quizzes, contact MyMathLab support at 1-800-677-6337. Don't contact me- I can guarantee you that I won't be any help! Of course, you may contact me if you are unable to resolve your issue after other attempts.

## VIII. WHAT TO DO IF YOU NEED HELP

Besides obtaining help from your professor either in person or by e-mail, you may also obtain assistance with the material by visiting on-campus tutors or by utilizing the numerous help options available through the MyMathLab software.

Face-to-face tutoring is available at each Valencia campus. Tutoring services are free to all students. For specific hours, select the "Math Center" tab under "Student Resources" in your WebCT course.

Information on online tutoring, available through MyMathLab, can also be found under the "Student Resources" tab in your WebCT course. Many other help options are available within MyMathLab and you will be introduced to these during the first few weeks of the semester.

## IX. VALENCIA STUDENT CORE COMPETENCIES

Efforts will be made to incorporate Valencia's Core Competencies into this course whenever possible. A brief summary of each core competency is given below.

### 1. **Think:**

Critical thinking is applying systematic thinking based on evidence across disciplines, from poetry to chemistry. *"We think critically by evaluating assumptions in light of data, trying to create explanations, and considering appropriate action steps."* (Brookfield, 1987) The ability to think critically, in relation to problem solving, is high among employer expectations.

### 2. **Communicate:**

Through communication we identify our own strengths and need for improvement as a communicator. We employ methods of such communication through speaking, listening, reading, and writing verbally and non-verbally, and visually with honesty and civility.

### 3. **Act:**

To act we apply disciplinary knowledge, skills, and values to educational and career goals. We want to implement effective problem solving, decision making, and goal-setting strategies. Also, we must learn to act effectively and appropriately in a professional and personal setting, and to respond appropriately to changing circumstances.

### 4. **Value:**

To value, we recognize the values expressed in attitudes, choices, and commitments. We strive to be able to distinguish among personal, ethical, cultural, and scientific values. We want to employ values and standards of judgment from different disciplines and see how they positively affect each other. With empathy and fair-mindedness, we are able to evaluate our own and others' values from individual, cultural, and global perspectives.

## X. ACADEMIC HONESTY

Unless instructed otherwise, you are expected to complete all of your assignments on your own. Providing information to, or receiving information from, another student concerning the content of any assignment is considered academic dishonesty. Each student is expected to be in full compliance with the college policy on academic honesty, which can be found in the student handbook. The professor reserves the right to determine appropriate penalties for violations, and these will include either a grade of "0" for the assignment or immediate failure of the entire course, depending on the severity of the infringement. Additionally, any violations will be reported to the Dean of Students as well as the Academic Dean, who may impose further penalties.

## **XI. WITHDRAWAL POLICY**

You may find, for various reasons, that it is necessary for you to withdraw from the course at some point during the semester. Please remember that withdrawing from any course may have a significant impact on your financial aid and/or any scholarships that you receive. You are encouraged to speak with your professor prior to initiating the withdrawal so that, together, you can determine if it is the best option for you.

Once you have determined that a withdrawal is necessary, remember that **you** are responsible for processing the withdrawal through Atlas. Don't just stop participating in the class! This will cause you to fail the course. Once you have withdrawn, you will be given the following grade depending on the date of your official withdrawal:

- W      This grade is assigned if you withdraw from the course ON OR PRIOR TO the withdrawal deadline of July 2, 2010. This grade does not affect your GPA in any way, however it may have some affect on your financial aid or scholarship.

Please note that there are no withdrawals of any kind permitted after July 2, 2010. Also, students who do not take the final exam in a course automatically receive a grade of "F" if they have not previously withdrawn from the course, no matter their average otherwise.

## **XII. STUDENTS WITH DISABILITIES**

Students with a disability who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of classes. The OSD determines the appropriate accommodations based on documentation of disabilities. If you have a disability of any type, please feel free to discuss it with me in person or by e-mail.

## **XIII. DISCLAIMER**

This syllabus is subject to changes at any point during the semester. If and when a change is necessary, I will make an announcement by posting the changes in WebCT, and by sending an email to all students via Atlas email.

# MAC 1114 – College Trigonometry

## Tentative Course Calendar

Description of Activities	Due Date
<p><b>Module #1: Sections 2.1, 2.2, 2.3</b></p> <p>Read: Section 2.1 (Omit Objective 5, p.102-103)            Section 2.2            Section 2.3</p> <p>Homework Assignments: HW 2.1, HW 2.2, HW 2.3</p> <p>Module #1 Discussion</p> <p>Module #1 Quiz</p>	5/16/2010 11:59 PM
<p><b>Module #2: Sections 2.4, 2.5, 2.6</b></p> <p>Read: Section 2.4            Section 2.5            Section 2.6 (Omit Objective 2, p.162-166)</p> <p>Homework Assignments: HW 2.4, HW 2.5, HW 2.6</p> <p>Module #2 Discussion</p> <p>Module #2 Quiz</p>	5/30/2010 11:59 PM
<p><b>Module #3: Sections 3.1, 3.2, 3.3</b></p> <p>Read: Section 3.1            Section 3.2            Section 3.3</p> <p>Homework Assignments: HW 3.1, HW 3.2, HW 3.3</p> <p>Module #3 Discussion</p> <p>Module #3 Quiz</p>	6/13/2010 11:59 PM
<p><b>Module #4: Sections 3.4, 3.5, 3.6</b></p> <p>Read: Section 3.4            Section 3.5            Section 3.6</p> <p>Homework Assignments: HW 3.4, HW 3.5, HW 3.6</p> <p>Module #4 Discussion</p> <p>Module #4 Quiz</p>	6/27/2010 11:59 PM
<p><b>MIDTERM EXAM (ON-CAMPUS TESTING CENTER)</b></p> <p>Covers Modules #1 - #4</p> <p>Study Guide will be provided</p> <p>MIDTERM EXAM Discussion</p>	6/30/2010 or 7/1/2010

<p><b>Module #5: Sections 3.7, 3.8</b></p> <p>Read: Section 3.7 Section 3.8</p> <p>Homework Assignments: HW 3.7, HW 3.8</p> <p>Module #5 Discussion</p> <p>Module #5 Quiz</p>	7/11/2010 12:00 PM
<p><b>Module #6: Sections 4.1, 4.2, 4.3, 4.4</b></p> <p>Read: Section 4.1 Section 4.2 Section 4.3 Section 4.4</p> <p>Homework Assignments: HW 4.1, HW 4.2, HW 4.3, HW 4.4</p> <p>Module #6 Discussion</p> <p>Module #6 Quiz</p>	7/18/2010 12:00 PM
<p><b>Module #7: Sections 5.1, 5.2</b></p> <p>Read: Section 5.1 Section 5.2</p> <p>Homework Assignments: HW 5.1, HW 5.2</p> <p>Module #7 Discussion</p> <p>Module #7 Quiz</p>	7/25/2010 12:00 PM
<p><b>FINAL EXAM (ON-CAMPUS TESTING CENTER)</b></p> <p>Covers Modules #5 - #7</p> <p>Study Guide will be provided</p> <p>FINAL EXAM Discussion</p>	7/29/2010, 7/30/2010, or 7/31/2010

**\*Please note that the due date for a particular section is the date/time by which all work for that module must be complete. Access will be closed at 11:59 pm on the due date! DO NOT WAIT until the due date to do the work for a module!**