

(Section 06: TTH 3:30 – 4:45)

MATH 115 Trigonometry

Fall 2010

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION! SAVE THIS SYLLABUS AND REFER TO IT DURING THE SEMESTER!!

Prerequisite: Math 101 Intermediate Algebra (**C- or higher**) or placement exam.

Course Description: This course *assumes* familiarity with intermediate algebra. Trigonometry will be approached using both the right triangle and the unit circle. Functions (with emphasis on the six trigonometric functions), equations, graphs, identities, conversion formulas and the laws of sine and cosine will also be covered. This course, together with Math 116 (Pre-calculus) (formerly MATH 121) is a prerequisite for Math 152 (Calculus I).

Instructor: Prof. Thomas Roman

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Math Dept. Office: (860) 832- 2835

Email: roman@ccsu.edu (the best way to reach me)

Office: Marcus White 304

Office Hours: T 1:00-2:00 (except when I have a dept. meeting; other arrangements can be made on those days, if necessary); TH 1:00-2:00; W 1:00-4:00.

Textbook: Trigonometry, 2nd Edition, by Cynthia Young, published by John Wiley & Sons, Inc. with the online homework system WileyPlus. If you are comfortable with this option, you may purchase just an access code (\$30-\$40) at www.wileyplus.com/buy and use the online text that accompanies it (the complete textbook is linked to your homework). You may also buy an access code separately along with a used textbook if you choose.

Coverage: I plan to cover Chaps. 1 - 7 of the textbook. (There is a review section on intermediate algebra in the appendix, if you need a refresher. *However, it is up to you to review this material if you need to.*)

Class Meeting Times: This class meets for 150 minutes of instruction per week:
Time: TTH 3:30 – 4:45; Place: MS 101.
Attendance will be taken.

Course Requirements: Attend and participate in class regularly; *read the book* and complete homework assignments and tests, as scheduled. A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class. **For a 3-credit math class, the expectation is at least 6 hours per week outside of class.**

Calculator Use: Graphing calculators are required for Math 115. The textbook is based on the TI-82 and TI-83, and I will be using one of these in class. **Note: TI-89 calculators are not allowed to be used in this course.** (Remember too that your calculator should be a tool, and not a crutch.)

Electronic Devices Policy: Cell phones, laptops, MP3's, PDA's, or any form of personal electronic or communication devices, are not to be used during class or exams unless special accommodations are necessary.

Classroom Etiquette: Please avoid behaviors that are disrespectful to myself or to your classmates. This includes, but is not limited to arriving late, talking while I'm talking, allowing your cell phone to ring in class, texting while in class, listening to head phones, etc. If you engage in such behavior, you may be asked to leave the classroom.

University Policies:

1. You must take the final exam at the time specified in the course selection book, which for this section is **Tuesday Dec. 14, 2:00 – 4:00 p.m.**
2. Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. Contact Student Disability Services, room 241, Copernicus Hall if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty. My telephone numbers and office hours are given above.
3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the "general snow message."
4. **The last day to drop a course is October 25.** Until October 25, students may withdraw from the course by completing a withdrawal form, available in the Enrollment Center, in Willard Hall. During this period approvals for withdrawal are not required; however, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center, are *not* considered official notice of a student's intention to drop the course. ***After October 25, withdrawals are allowed only under extenuating circumstances and require approval of the course instructor, department chair and dean of the School of Arts and Sciences. Be aware that "doing poorly in the course" is *not* considered to be extenuating circumstances, under the rules of the University.***

5. You are responsible for understanding and abiding by the University's policy on academic integrity. Information on the policy may be found at <http://www.ccsu.edu/AcademicIntegrity/>. This policy is rigorously enforced by the Department of Mathematical Sciences.

Resources Available:

1. If you need help, **take advantage of my office hours.** *That is what they are for.* Do not wait until just before the first test to do so. You should come and see me as soon as you are having any difficulty in the course. Bring all your homework with you so that I can see where you are having trouble. I view your seeking help as a sign of effort in the course, not as a sign of weakness. Some of my best students have been frequent visitors to office hours for help on homework. **Office Hour Use and Etiquette:** If you need extra help, but *absolutely* cannot make *any* of the listed office hours, you can make an appointment with me by e-mail. You can also go to the Learning Center located in Copernicus 241 and 242. A schedule for hours the Center is open will be posted soon after the beginning of the semester. I will always be happy to answer your questions in office hours; however, you must come prepared. In other words, you should have read over your notes and made serious attempts on the homework. If you find you are having problems and not understanding the material, the first question you should ask yourself (and I will ask you) is, "Am I putting in my 6 hours?"

2. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

3. A list of private tutors for hire is available in the math department office, Room 107 Marcus White, 832-2835.

Evaluation

Minimum averages have been established for each of these grades:

A	93%	B+	87%	C+	77%	D+	67%
A-	90%	B	83%	C	73%	D	63%
		B-	80%	C-	70%	D-	60%

The average for the course will be based on the following weights:

<u>Three exams</u> (highest exam score weighted 30%, second highest weighted 20%, lowest score weighted 10%)	60%
<u>Online Homework</u>	20%
<u>Final Examination</u>	20%
Total	100%

Three exams: the three exams count 60%, but are weighted in your favor according to the following scheme: your highest score is weighted 30%, second highest weighted 20%, lowest score weighted 10%. **The exams will consist of a part *without* use of the calculator, as well as a calculator part.** ****Note:** In order to receive the grade of C- or better for the course, you must receive the grade of at least 60% on the final exam. ******

Note: Because of the way I weight the exams, I do not give “extra credit”. For the same reason, I do not “curve” the exams, e.g., if the class average is 55, 55 does not become a “C”.

Homework: Homework will be assigned for every covered section, usually at every class period. The HW problems will be graded online (through Wiley Plus; see more about accessing it below). You WILL be able to print out the HW and work it out on paper, but you MUST enter your answers online. You will have three attempts for each question; a link to the appropriate section in the textbook will show up after the first attempt and a hint will show up after the second attempt. (However, *you lose credit for each bit of help you access*, so it’s best to do the HW before you enter your answers online! The full solution will be revealed if your third attempt is still incorrect. You also have the option of doing the problems a few at a time (your work can be saved for later), and you may work together if you choose. Note that many of the questions will have different values for each student! Also, **the question may change values after each attempt**. Late homework will receive a score reduced by 50% (just the questions that are answered after the deadline). The lowest two HW scores of the semester will be dropped.

Doing the HW is one of the most essential ingredients to passing the course. To do the homework means to write it out carefully in a logical manner, not just to look it over or read over the solutions. Remember that **on the exams you will be required to justify your answers, i.e., show your work.** Therefore write a complete justification for every problem; don’t just guess the correct choice.

Be warned at the beginning:

If you are “allergic” to doing homework, then this course is *not* for you!

You will not be able to pass the exams without doing the homework!

Wiley Plus Access: To access and register for your online account, do the following:

- Type the URL <http://edugen.wiley.com/edugen/class/cls174851> into your browser. Check that the section is the correct one (Math 115 Sec 06 –TTH 3:30-4:45 - Fall '10) before you register.
- Click the “Register” button to start.
- Click on “Assignments” to start an assignment, or “Gradebook” to view your grades up to the current time.
- For extra help, click on “Read, Study, Practice”. There you will find links to the textbook as well as practice problem sets (ungraded).

For help with registering, go to <http://www.wiley.com/college/twomin/stu/register.html> . Once registered, you can obtain additional support at www.wileyplus.com/support for live chat and www.wileyplus.com/studentfdoc for additional resources.

Attendance: attendance will be taken. Two percent will be added to the semester grade of any student with perfect attendance, one percent if absent once. Lateness three times will count as an absence. In particular, you are responsible for all notes, announcements, etc. that are given during class time. Here’s what to do if you do miss a class:

- Contact one of your classmates so that you can find out what you have missed and get the notes.
- Read over those notes and the sections from the book that you have missed.
- Attempt the homework on that section.
- Come to see me to discuss any points on which you are still stuck.

While I am more than happy to aid you in understanding what you have missed, you should not expect that I will recreate the lecture for you in office hours. You should thus make sure you have taken the above steps before coming.

Course pacing: In order to cover the material required in the course, it will be necessary to maintain, as closely as possible, the schedule set out below in the syllabus. It is up to you to adjust your personal pacing accordingly. Although I will try to answer as many questions as I can in class, be aware that I cannot “slow the course down” and still cover the material you will need to know for the final exam. If you need to, use my office hours to come in for extra help. Be smart and come in for help as soon as you are having trouble.

** This course is not a remedial course. Therefore, do not expect the same level of supervision that you may have received in Math 101. **Be aware that I expect a higher level of intellectual maturity and personal responsibility for students in this course than I do for those in Math 101.** *It is up to you to keep up with the homework and read the book.*

** [NOTE: You are expected to *know* basic algebra; if you are rusty, it is up to you to refer to the algebra review in the Appendix and brush up as needed.]

Schedule of Important Dates:**Tentative Exam Dates:**

Exam I: Thurs., Sept. 30; Exam II: Thurs. Oct. 28; Exam III: Tues. Dec. 7;

Final Exam: **Tuesday Dec. 14, 2:00 – 4:00 p.m.;**Last drop date: October 25

Absence from Exams: NO MAKE-UP EXAMS WILL BE GIVEN. If you miss an exam due to an *excused* absence, your final exam grade will be counted twice (once for the excused absence, and once for the final exam grade).

Definition of Excused Absence: An absence from an exam is excused if you contact the instructor in person or by telephone **PRIOR** to the exam and state the reason for your absence (e.g., sickness, death in the family). **The reason has to be confirmed later in writing** (e.g., in the case of sickness, by a doctor or a hospital or the CCSU infirmary).

Note: Insufficient preparation for an exam is **NOT** a reason for absence.

Tentative Schedule:

Week	Dates	Tues	Thurs
1	8/31 – 9/2	Intro, Sec. 1.1, 1.2	1.3, 1.4
2	9/7 – 9/9	1.4, 1.5	2.1, 2.2
3	9/14 – 9/16	2.3	2.4, 3.1
4	9/21 – 9/23	3.2, 3.3	3.4
5	9/28 – 9/30	Review for E1	Exam 1: Chapters 1, 2, 3
6	10/5 – 10/7	4.1, 4.2	4.2
7	10/12 – 10/14	4.3	5.1, 5.2
8	10/19 – 10/21	5.2, 5.3	5.4, 5.5
9	10/26 – 10/28	Review for E2	Exam 2: Chapters 4, 5
10	11/2 - 11/4	6.1	6.2
11	11/9 -11/11	6.3	7.1
12	11/16 – 11/18	7.2	7.3
13	11/23 – 11/25	7.4	Thanksgiving: No Class
14	11/30 - 12/1	7.5	Review for E3
15	12/7 - 12/9	Exam 3: Chapters 6, 7	Review for Final Exam
16	12/14 – 12/16	Final Exam Tues. Dec. 14, 2:00 – 4:00	

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The single most valuable piece of advice in this whole syllabus (really):

***It is virtually impossible to pass this course without doing the homework!* (No kidding!) This is not a threat, but simply a *reality* of math courses. Just watching me work problems in class is *not* sufficient. It would be like taking a course in swimming without ever getting in the water. The only way you learn this stuff is with lots of practice (the same was true for me, too). That means you need to do *all* the homework religiously, *as well as read the book*.**

A Useful Diagnostic: If you work the problems using the answers in the back of the book or a tutor, *be careful* not to fool yourself. Until you can do a problem without *constant* help from the tutor or without *constantly* looking at the solution, then you do not really understand how to do the problem. Remember that the solution or the tutor will not be there to help you on an exam. That doesn't mean don't use them – it simply means don't use them as a crutch.



Welcome to WileyPLUS

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- + **Instant Feedback!**
- + **Track your own progress!**
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Registration Code Savings!

You will need a registration code to access *WileyPLUS*. It's your choice to buy it with or without the printed text:

- Use the online version of your text in *WileyPLUS*, go to: www.wileyplus.com/buy and **save up to 50% off the price of the print text!**
- Buy the new, printed text in the bookstore and a *WileyPLUS* access code will be included. **DO NOT THROW THIS AWAY!**

Getting Started

Once you purchase your *WileyPLUS* registration code, **you will need to register for WileyPLUS:**

1. **COPY AND PASTE the specific Class Section URL** listed below into your browser.

Class Section Name	Class Section URL
Math 115 Sec 06 – TTH 3:30-4:45 - Fall '10	http://edugen.wiley.com/edugen/class/cls174851

2. Check that the section matches your schedule before you register!
3. Click the **REGISTER** button to start.
4. Need help registering?
<http://www.wiley.com/college/twomin/stu/register.html>

WileyPLUS Help

LOGIN: www.wileyplus.com
LIVE CHAT! Technical Support: www.wileyplus.com/support
Additional Resources: www.wileyplus.com/studentfdoc