Syllabus for: Math25 – Brad Morin

Semester & Year:	Fall 2012
Course ID and Section Number:	Math-25-E1901
Number of Credits/Units:	4
Day/Time:	MTWTh 10:05
Location:	PS201
Instructor's Name:	Brad Morin
Contact Information:	Office location and hours:PS200 by appointment Phone: Email:brad-morin@redwoods.edu

Course Description:

A study of trigonometric functions, radian measure, solution of right triangles, graphs of the trigonometric functions, inverse trigonometric functions, trigonometric identities and equations, laws of sines and cosines, solution of oblique triangles, polar coordinates, complex numbers in trigonometric form, De Moivre's theorem, and conic sections.

Student Learning Outcomes (as described in course outline) :

1. **Read, write, and speak accurately about mathematical ideas and use correct mathematical notation.**
2. **Students should be able to use graphing technology to visualize trigonometric curves, explore mathematical concepts, and verify their work.**
3. **Students should be able to use the theories of trigonometric functions and conic sections as fundamental problem-solving tools.**
4. **Students should demonstrate the characteristics of an effective learner, such as note-taking, critical reading, communication through writing, verbal discussions, etc.**
5. **Students should be able to apply the mathematics of trigonometric functions to real-world problems and applications.**
6. **Students should be able to use numerical, graphical, symbolic, and verbal representations to solve problems and communicate with others.**

Special accommodations: College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS.

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the

procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course.

The student code of conduct is available on the College of the Redwoods website at: http://redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf

Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage.

College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

Textbook: **Algebra & Trigonometry, 7th or 8th Edition by Sullivan (not 9th edition).**

Text may be available in the bookstore.

Amazon links to finding a good price on the textbook:

Hardcover 7th Edition
Hardcover 7th Edition (alternate option)
Instructor's Edition 8th Edition (why not?)
Value Pack 8th Edition
Hardcover 8th Edition
Hardcover 8th Edition (alternate option)

Course Equipment: TI-83 Calculator or TI-84 (TI-89 won't work well for out class).

Graph-paper workbook in which you do and display homework.

Bring text, workbook, and calculator on lecture days -- calculator on exam days.

Basis for Grade:

25% Daily Quizzes on homework given at the end of class
50% Semester Exams.
20% Final Exam
5% Class projects, Departmental surveys, SLO assessments, workbook.
Minimum quiz percentages required for an:
A Grade - 75% (Talk to me early if you anticipate an attendance problem.)
B Grade - 65%.
After every exam, I provide data necessary to calculate your grade to that point in time.

Makeup Exams and Quizzes:

MIssed quizzes can be partially made up using Optimath, as explained later.
Missed exams can be partially made-up on Optimath, as explained later.
Exceptions and extensions will be granted judiciously.

Grade Scale: Letter grades will be determined based upon the following scale.

A 93% - 100%
A- 90% - 92%
B+ 87% - 89%
B 83% - 86%
B- 80% - 82%
C+ 77% - 79%
C 70% - 76%
D 60% - 69%
F Below 60%

Learning Resources: Overview at http://msenux.redwoods.edu/mathdept/courses/math25.php

Recommended -- Math Lab
Optimath (More about this later)
Disabled Student Programs and Services
Academic Support Center
The L.I.G.H.T. Center
GUID 145

Prerequisites: Make certain this course is appropriate for your skills and experience.

Math 120 is a prerequisite.
Math 30 should have been completed or should be taken concurrently.
Normally, I recommend completing Math 30 before taking Math 25.

Homework/Quizzes & Exams

The dates given below are the days the sections are covered in class. The suggested homework should then be done in preparation for the quiz the next day. The quiz is one point, all or nothing. Quizzes can be made up by completing assignments on optimath by getting at least 6 out of 7 problems right. You may make as many attempts as you wish. The results are automatically emailed to me.

Extra credit can be obtained after each exam (restoring a portion of the points missed on the exam) by doing 8 of the 10 problems correct on the corresponding option on optimath. Generally, three days will be given to complete that option. After three days, you must get 9 out of 10 to get the extra credit. The single lowest exam score, including a missed exam, will be dropped if made-up on optimath with a score of ten out of ten.

Additional extra credit can be obtained by:

Do all the optimath exercises before each exam -- adding 2 points to the exam score.

Do Alcumus on Art of Problem Solving -- 1 exam point for each level in algebra or geometry.

Links to optimath and Alcumus are found at the following sites:
http://msenux.redwoods.edu/cgi-bin/online/f12/OTportal.cgi
http://www.artofproblemsolving.com/

Date		7th(8th) Ed Section	Suggested Problems	Asterisk Indicates Potential Extra Credit	_ _ Recommended Focus Problems
Aug	27	Trig overview.			
	Assignment:				
		Email brad-morin@redwoods.edu with heading **Math25** – just say "hi".			
		Take Survey, http://msenux.redwoods.edu/surveys/math25studentinfo_f12.html			
		Optimath, do it, even if you miss both problems, you will get credit.			
	28	6.1(7.1)	1-8 all, 11-69 odd	– –	19,43,53,61,67
	29	6.1(7.1)	9, 10, 71-107 odd, *114, *115	--	73,81,89,97,99
	30	6.2(7.2)	1-19 odd, 21-65 odd	--	7,11,15,23,25,31,37,43,51
Sep	3	Labor Day – Holiday			
	4	6.2(7.2)	2-20 even, 22-66 even, *69, *71, *75	--	55,57,59
	5	6.3(7.3)	1-4 all, 5-49 odd, 55, *57, *59, 65, 67	--	5,11,21,33,37,45,47,65, 67
	6	6.4(7.4)	1-10 all, 11-113 odd, *115, *117	--	4,13,17,23,31,33,37,47,51,67,73,95,103
	10	Chapter 6 Review Exercises 1-45 odd			
	11	Exam 1			

Modifications to this syllabus and calendar may be necessary. Modification to the calendar will be needed.