



Course Syllabus - Math 154 - Fall 2012
Pre-Calculus II
12:00-12:50AM / MTWRF / BOUILLON 144

Professor:	Dr. Jane Whitmire
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Phone - Office:	509-963-2268 Black Hall 225-32
Office Hours:	TWR 7:30-8:30 a.m. or F 1:00-1:50 p.m.
Textbook:	PreCalculus 7th Edition, Chapters 6-11
Authors:	Cohen, Lee, Sklar

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, matrices, and conic sections.

Course Policies

Electronics: Unless otherwise stated, students will not be allowed to operate any type of electronic equipment in class such as cellular phones, calculators, or beepers. Electronics, excluding a TI-83 or TI-83 Plus calculator, will not be allowed during examinations.

Homework: Daily homework will be assigned, but not collected. As assigned problems form the basis for exams, it is to your advantage and responsibility to keep up with the homework.

Attendance: Daily attendance is expected and necessary for success. You are responsible for any announcements made during class regarding homework and exams. Ten points will be deducted from the overall course grade for each day absent.

Exams:

Exams will not be given early or late. Make-up exams will not be given for any reason. No credit will be given for exams not taken. Only the 8 highest scores from the 10 exams will be used in the calculation of the final grade. Part of taking the exam is to complete the exam in the time allocated. The lowest two exam scores will be dropped for every student. Questions on the exams will be similar to problems suggested or completed in class. Unless otherwise indicated, notes, books, or cell phones will not be allowed on exams.

Exam Schedule:

<i>Exam#</i>	<i>Date</i>	<i>Textbook</i>
1	September 21	6.1
2	September 28	6.2 – 6.4
3	October 5	7.1 – 7.4
4	October 12	7.5 – 8.3
5	October 19	8.5 – 9.3
6	October 26	9.4 – 10.2
7	November 2	10.3 – 10.6
8	November 9	10.7 – 11.2
9	November 16	11.2 – 11.3
10	November 30	11.4 – 11.6

Exam Details:

Each exam will be multiple choice format, given on a Friday, and worth 100 points. No partial credit will be given. You are expected to solve the problems on the exams using the methods discussed in class, thereby demonstrating your understanding of these methods. Precalculus requires a higher level of mathematical sophistication than the previous mathematical courses you have taken. It is expected that you will devote at least 10 productive hours of study to this course EACH week.

Read the relevant parts of the textbook before attending lectures, review your lecture notes after each lecture, and do all the suggested exercises. To pass this course, you must practice. Mathematics is not a spectator sport.

The Monday after each exam, grades will be posted on the class Blackboard website. Blackboard can be accessed using the Wildcat Connection. Check this site regularly to insure that the recorded score is correct and compare your score to others in the classroom.

Student Learning Outcomes

Student will define and apply the trigonometric functions with respect to general angles in terms of degrees and radians.

Student will evaluate the trigonometric functions of special angles (and their multiples) as well as the quadrantal angles.

Student will solve problems in the application of radian measure, i.e., arc length, area of a sector, linear and angular velocity.

Student will graph all trigonometric functions and the inverse functions for sine, cosine and tangent with respect to periodicity, translation, amplitude and phase shift.

Student will prove trigonometric identities using the basic fundamental identities.

Student will solve trigonometric and inverse trigonometric equations.

Student will solve for unknown parts of the right and oblique triangles using the law of sines and law of cosines.

Student will set up and solve geometric and real-life problems with a calculator.

Student will represent a vector in algebraic form and perform simple operations with vectors.

Student will represent complex numbers in algebraic, geometric and polar form.

Student will be able to perform basic matrix operations: row-reduction, inverse, determinant.

Final Exam

The final is worth 200 points, comprehensive, covers all material discussed in class, and is to be taken at the time scheduled by the University. The final is longer than a typical exam. Completing the final in the time allotted is part of the final. The final exam for Fall 2012 is scheduled by CWU for Friday December 7, 2012 from 12:00- 2:00 p.m. The final is not optional and cannot be taken early. Any student who fails to take the final automatically fails the course.

Grading Scale

Keep all exams for study and for verifying records on the course Blackboard website. Everyone is graded the same way. NO EXCEPTIONS. Letter grades A/A-/B+/B/B-/C+/C/C-/D+/D/D-/F are based on a strict 930-1000/900-929/870-899/830-869/800-829/770-799/730-769/700-729/670-699/630-669/600-629/BELOW 600 cutoff.

Dates to Remember

<i>VeteransDay</i>	<i>Monday</i>	<i>November12</i>
<i>Thanksgiving</i>	<i>Wednesday</i>	<i>November21</i>
	<i>Thursday</i>	<i>November22</i>
	<i>Friday</i>	<i>November23</i>
	<i>Monday</i>	<i>November26</i>

Special Needs Statement:

Students with disabilities who wish to set up academic adjustments in this class should provide a copy of their "Confirmation of Eligibility for Academic Adjustments". Eligible students without this form should contact the Disability Support Services Office by visiting Bouillon 205, emailing dssrecept@cwu.edu, or calling the phone number 509-963-2171.