

Central Washington University

Course title and number:

Math 154-002, Precalculus II

Course offered: Spring 2015.

Credits: 5 credit hours

Instructor contact information: Dr. Frank Underdown Jr.; Cell# 509-989-5533 (please, no call after 9:00 pm); email: Contact me through Canvas

Course time & place: MoTuWeThFr

12:00-12:50am, Bouillon Hall 109

Note: I will upload course materials to Canvas (Homework problems, solutions, etc. You will also be able to communicate with me via Canvas.

Office: Black Hall room 225-34

Office hours: 10:00-11:00am, Mon-Fri

Textbook: Precalculus (Pkg w/ Mymathlab); Author: Sullivan; Pub: Pearson, ed. 9

Course Content: Trigonometry, conic sections, matrices, matrix applications. Maybe a review of complex numbers. Note I covered complex numbers with my Precalculus I students. So, this topic would depend on student needs.

Equipment: Scientific calculator and computer

CATALOG DESCRIPTION: A continuation of MATH 153 with emphasis on trigonometric functions, vectors, systems of equations, the complex numbers, and an introduction to analytic geometry. Formerly MATH1632.

PREREQUISITE: Prerequisites: Math 153 with a grade of C or higher; OR a score of 17 or higher on the Advanced Math Placement Test; OR a score of 46 or higher on the Compass College Algebra test.

Measurable learning objectives, At the end of the course students should be able to:

- Use geometry to work with symmetrical triangles
- Compute trigonometric functions of special angles and use them to solve for the unknown part(s) of right triangles.
- Use the Laws of Sines and Cosines to solve for the unknown parts of triangles.
- Solve trigonometric identities and equations.
- Graph trigonometric functions.
- Compute the values of inverse trigonometric functions.

- Use matrices to solve systems of equations.

This is the intended schedule for the class. Topics listed each day are the sections that are planned to be discussed in class on that day. It is not unusual to be two or three days ahead or behind this schedule, but we will cover the material in this order.

Week 1: Intro to Trigonometry and Angles

Week 2: Graphing Trigonometric Functions

Week 3: Trigonometric Identities

Week 4: Solving Trigonometric Equations

Week 5: Oblique Triangle Theorem and **Midterm Exam**

Week 6: Parabolas and Circles

Week 7: Ellipses and Hyperbolas

Week 8: Matrix Operations

Week 9: Matrix Applications

Week 10: **Final Exam** (Take home)

Important dates:

March 31, 2015, classes begin

April 22, 2015, faculty Development Day, no classes

May 25, 2015, Memorial Day, no classes

June 5, 2015, Classes end, last day of instruction

June 8-11 Final Exam week

Midterm Exam_____ / **To be determined, but during 5th week**

Final Exam_____ / **Week before scheduled final exam week**

ASSESSMENT METHODS AND GRADING SCALE

Your grade will be based on the following:

Homework 25%

Midterm 37.5%

Final exam 37.5%

The grading scale follows:

Decimal	Percent age %	Decimal	Percent age %	Decimal	Percent age %
4	95	2.8	83	1.6	71
3.9	94	2.7	82	1.5	70
3.8	93	2.6	81	1.4	69
3.7	92	2.5	80	1.3	68
3.6	91	2.4	79	1.2	67
3.5	90	2.3	78	1.1	66
3.4	89	2.2	77	1	65
3.3	88	2.1	76	0	<64
3.2	87	2	75		
3.1	86	1.9	74		
3	85	1.8	73		
2.9	84	1.7	72		

Attendance policy: You can attend or not attend at your own discretion. However, If you don't attend, you will not be able to pass the module test. **You will be responsible do all homework and take exams on time.** Only if you have a pre-approved absence, or documented family/medical emergency will you be allowed to make up the work.

ACADEMIC HONESTY

As members of the Central Washington University learning community, students are not to engage in any form of academic dishonesty. Forms of academic dishonesty include, but are not limited to, plagiarism, cheating, fabrication, grade tampering, and misuse of computers and other electronic technology. Students who engage in academic dishonesty may receive an academic penalty or a disciplinary penalty or both. The disciplinary consequences of engaging in any form of academic dishonesty include reprimand, probation, suspension, and dismissal. A student who knowingly helps or attempts to help another individual to violate the University's policy on academic honesty also may be subject to academic as well as disciplinary penalties.

EXAMS:

1) Work exams by yourself. Do NOT collaborate on exams. Any students who collaborate on the exam will receive a zero on the exam.

2) Do NOT go to the help center to get help working on your exams. The center has been instructed to take your exam if you do. Any students who use the help center to complete their

exams, will receive a zero on the exam.

STUDENTS REQUIRING SPECIAL ACCOMMODATION

Central Washington University provides reasonable accommodations to students with disabilities. Students who need course accommodations because of a disability, have emergency medical information, or need special arrangements in case the building must be evacuated, should notify their instructors as soon as possible.