

MATH 153

Professor: Sharon Rosell
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Office hours: 10:00-11:00 AM T, Th
in Hertz 125, others TBA

Course Content:

This is a foundation course that stresses algebraic and elementary function concepts and the manipulative skills essential to the study of calculus. Numerical, graphical, and algebraic approaches will be used to give students a better understanding of concepts involved in the study of calculus. This course involves graphing calculators throughout the term as they are excellent tools for visualizing mathematical concepts.

We will study selected sections of chapters 1 through 5 in the text.

Course Objectives:

Students will be able to

1. Analyze the features of linear, quadratic, exponential, and logarithmic functions.
2. Demonstrate understanding of the following topics: functions, their graphs; inverse functions; rates of change and exponential growth.
3. Solve linear, quadratic, exponential, and logarithmic equations algebraically, graphically, and numerically.
4. Apply appropriate technology to solve problems.
5. Work cooperatively with others.

Class meeting times:

M, T, W, Th, F 9:00 AM to 9:50 AM in Hertz Hall, Room 119.

Prerequisites:

You will need to have mathematical skills at the level of Math 100 C or equivalent. To understand the material presented in, and to successfully complete the requirements of this course, basic skills and a comfort level with algebra are absolute necessities. If you do not have these skills, you are at risk for doing poorly in this course. See me for further clarification of this issue.

Materials needed:

Text: PRECALCULUS A Problems-Oriented Approach, Sixth Edition, by David Cohen.

A graphing calculator. I will use a TI-83 for instructional purposes. A TI-84 would also be useful, or a TI-89 if you are going on to take calculus. You should also have a ruler.

Tests:

There will be four midterms and a final. The midterms are scheduled for October 9, October 23, November 6 and November 20. The final is on Thursday, December 10 from 8:00 to 10:00 A.M.

You are expected to be in class on the given test dates. If an emergency occurs and you can't make class, please call 963-2757, and leave a message, or e-mail me at rosells@cwu.edu. Make-up exams will only be allowed if arrangements are made prior to the regular examination time.

Cheating on exams will not be tolerated. Any form of cheating will result in a grade of zero for that exam.

Grading:

The grading will be as follows:

For lecture

4 midterms	60 %
Final	25 %
8 Homework Assignments	15 %

There will at times be additional in-class problems, or homework to do for extra credit bonus points.

The following percentages will be used to determine your grade:

92.5 - 100 = A
90.0 - 92.4 = A-
87.5 - 89.9 = B+
82.5 - 87.4 = B
80.0 - 82.4 = B-
77.5 - 79.9 = C+
72.5 - 77.4 = C
70.0 - 72.4 = C-
67.5 - 69.9 = D+
62.5 - 67.4 = D
60.0 - 62.4 = D-
Below 60.0 = F

Assignments:

Homework will generally consist of problems assigned during the course of each week from the text or from handouts. There will be two types of homework assigned. Some homework problems will be to do on your own, and will not be required to be turned in. There will also be homework to be turned in. This homework will be due on Wednesday of the following week at 9:00 A.M. Assignments should be completed by Tuesday in order to ask questions in class. Late homework will be docked. Homework that is more than a week late will not be accepted. You are encouraged to work together on

assignments, however it is important that you submit your own work for grading and do not merely copy off of each other.

Attendance:

Mathematics is a difficult subject for most people, and each class builds on the class given the day before, so you would be well advised to attend class regularly. Perfect attendance will not guarantee a passing grade, however. You will be graded exclusively by your performance on tests and assignments.

Withdrawal:

Please read pages 29 -30 of your undergraduate catalog. The university provides a limited number of withdrawals through the sixth week of the quarter. Any student who disappears without formally withdrawing will receive a grade determined by the total number of points they have accumulated as outlined on the previous page.

Classroom Protocol:

The classroom should be a place for learning. Behavior that distracts others will not be tolerated. Failure to comply will result in you being asked to leave. There will be no talking other than in public dialogue. Please, if you are not in class to learn mathematics; do not interfere with anyone else who wants to. Questions are welcomed.

Academic Dishonesty:

Central Washington University holds its students to the highest standards of academic integrity and honesty. Academic dishonesty of any kind is not tolerated and will result in failure of the course and possibly further disciplinary action through the university. What constitutes academic dishonesty is clearly defined by the CWU Judicial Code Section II, Line B. The code is available at

<http://www.cwu.edu/~saffairs/studentinfo/studentjudicialcode.html>

Disability Reasonable Accommodation Statement:

Students with disabilities who wish to set up academic adjustments in this class should provide me with a copy of their "Confirmation of Eligibility for Academic Adjustments" from the Disability Support Services Office as soon as possible so we can meet to discuss how the approved adjustments will be implemented in this class. Students with disabilities without this form should contact the Disability Support Services Office, Bouillon 205 or dssrecept@cwu.edu or 963-2171 immediately.