

MATH 172

Calculus I

Instructor: Michael A. Lundin

Central Washington University Department of Mathematics

400 East 8th Avenue Ellensburg, WA
98926-7424

Bouillon Hall Room 108D

e-mail: lundin@cwu.edu

Office Hours

MTWThF 11:10-12:00

If you need to meet at any other time, please make an appointment with me. I use e-mail to avoid playing "phone tag."

Please talk to me if you need special accommodations due to a disability.

Student Outcomes

Students successfully completing Math 172 will model real world phenomena by way of differential techniques.

Text

Course Content and Text Sections

Week 1 Limits:
2.1,2.2

Week 2 Limit
Laws,
Continuity:
2.3-2.5

Week 3
Advanced
Limits and
Intermediate
Value
Theorem:
2.6-2.8

Exam 1

Week 4:
Derivative:
3.1-3.3

Week 5:
Derivative
Rules, Rates
of Change,
Trig: 3.4-3.6

Week 6:

Course Requirements

Quizzes

Brief announced quizzes will be give at least once per week over HW content.

Homework

1. Homework will be assigned every night on WebWork, an on-line HW program.
2. Advanced take-home assignments will be given periodically. These will be analysis and synthesis projects and must be completed outside of class.

Exams

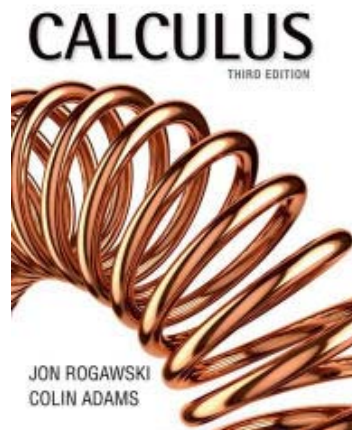
There will be two mid-term exams and a final exam.

Final Exam

There will be one held during Final Exam Week. You may not take the final exam any other time unless you have two or more final exams the same day.

Attendance, Missed Tests, Assignments

Class attendance is expected, and is a reasonable predictor of grades in this



Course Philosophy

Calculus is the study of mathematical modeling of real world phenomena within a deterministic framework.

Higher and
Complex
Derivatives:
3.7-3.9

Week 7:
Implicit
Differentiation
and Complex
Derivatives:
3.8-3.10

Exam 2

Week 8:
Extreme
Values, MVT
4.2-4.3

Week 9
Graphing,
L'Hôpital's Rule
4.4-4.6

Week 10
Derivative
Apps: 4.7-4.8

Final Exam:
Time to be
determined.

course. Tests and quizzes must be taken on schedule, and assignments must be handed in by their due date. Tests, quizzes or assignments may be made up only if the student and instructor agree on a time **before** a deadline.

Grading Rubric

I use a [grading rubric](#) for nearly every assessment of nearly every problem. The exact points may vary for each dimension, but the dimensions will not. I expect your calculus, algebra, and presentations thereof to be superb to earn all credit!

Assessments	Percent of Final Grade	Final Point Distribution	Final Grade
Homework			
Quizzes	15%	93-100%	A

	15%	90-92%	A-
2 Midterm Exams	40%	87-90%	B+
Final Exam	30%	83-86%	B
		80-82%	B-
		77-79%	C+
		73-76%	C
		70-72%	C-
		67-69%	D+
		63-66%	D
		60-62%	D-
		Below 60%	F