

MATH 172

Calculus I

Meets M-F 9:00-9:50 in Bouillon 111

Course Requirements

	Course Content	Quizzes
<p>Course Philosophy</p> <p>Calculus is the study of mathematical modeling of real world phenomena within a deterministic framework.</p>	<p>Week 1 Limits</p> <p>Week 2 One-side Limits, Continuity</p> <p>Week 3 Tangents and Derivatives</p> <p>Week 4 Derivative Rules</p>	<p>Brief announced quizzes will be give at least once per week over HW content.</p>
<p><u>Student Outcomes</u></p> <p>Students successfully completing Math 172 will model real world phenomena by way of differential techniques.</p>	<p>Exam 1</p> <p>Week 5 Derivative as Rate of Change, Trig, Chain Rule</p>	<p>Homework</p> <p>Homework will be assigned every night but not collected. However, I will give brief quizzes often with problems extracted from the homework, or much like homework Advanced take-home assignments will be given periodically. These will be analysis and synthesis projects and must be completed outside of class.</p>
<p>Instructor: Michael A. Lundin</p> <p>Central Washington University Department of Mathematics</p> <p>400 East 8th Avenue Ellensburg, WA 98926-7424</p>	<p>Week 6 Implicit Differentiation and Inverse Functions</p> <p>Week 7 Related Rates and Linearization</p>	<p>Exams</p> <p>There will be two mid-term exams and a final exam.</p>
	<p>Exam 2</p> <p>Week 8</p>	<p>Final Exam</p> <p>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.</p> <p>Attendance, Missed Tests, Assignments</p> <p>Class attendance is expected,</p>

Bouillon Hall Room
108D

e-mail:
lundin@cwu.edu

Office Hours

MTWThF 10:10-
11:00

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

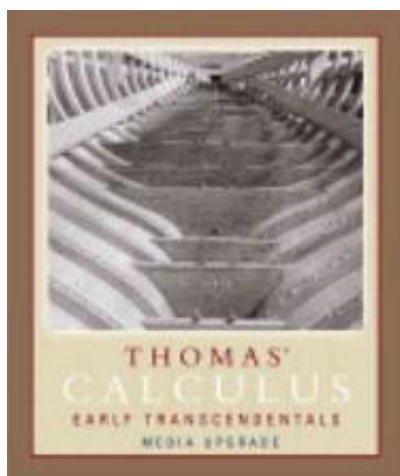
Please talk to me if you need special accommodations due to a disability.

TEXT

Calculus

Early Transcendentals

Thomas



Extreme and Mean Values

Week 9
Concavity, Optimization, L'Hopital

Week 10
Newton's Method and Antiderivatives

**Final Exam:
Time to be determined.**

and is a reasonable predictor of grades in this 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	15%	93-100%	A
Quizzes	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

