

MATH 170

Intuitive Calculus

Meets M-F 11:00-11:50 in Bouillon 106

Course Philosophy

In this course, we will study mathematical modeling of real world phenomena within a deterministic framework.

Student Outcomes

Students successfully completing Math 170 will model real world phenomena by way of differential, and integral calculus techniques.

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Office Hours

MTWThF 12:15-1:00

If you cannot meet during this time, we

Course Content

Week 1
Functions,
Graphs, Models

Week 2
Functions,
Graphs, Models

Week 3
Differentiation

Week 4
Differential
Models

Week 5
Differential
Models

Exam 1

Week 6
Exponential and
Log Models

Week 7
Integration

Week 8
Integration
Models

Week 9 1st order
ODEs

Week 10 1st
order ODEs

Final Exam: (In class) Tuesday, June 3, 8:00-10:00

Course Requirements

Project

You will write a paper which includes developing a non-linear model and using differential techniques to explain that model, including graphing, and proper employment of calculus.

Homework

Homework will be assigned throughout the week and collected on Monday. You will be encouraged to work in teams. Your homework will count as 20% of your final grade. Homework will be graded on a 0-3 pt scale, based on the following rubric:

3 pts-complete, neat, work shown supports solutions

2 pts-mostly complete, neat, work shown supports solutions

1 pt-missing content, not neatly presented, or work does not support solutions

0 pts-substantial missed work, not submitted

Exams

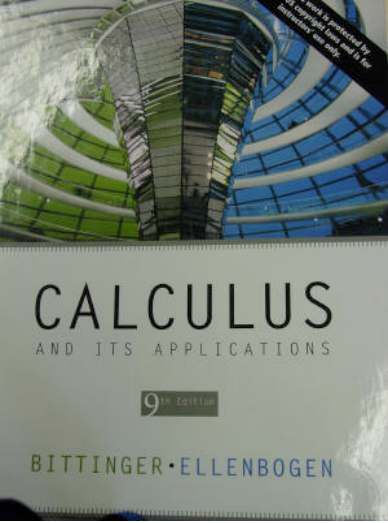
There will be a mid-term exam and a final exam. Each exam counts as 30% of your final grade. Generally, the previous week's worth of homework will be handed in Mondays.

Special Accommodations

...ing
can make
arrangements to
meet at another time.

10:00

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

TEXT	Assessments	Percent of Final Grade	Final Point Distribution	Final Grade	
<i>Calculus and Its Applications</i>	Written Homework	20%	93-100%	A	
Bittenger and Ellenbogen	Project	20%	90-92%	A-	
	Midterm Exam	30%	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	

