

# Math 1132 Sections 31--37

## Lecturer

### Professor Andrew Haas

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### Time & location of lecture

- Tu--Th 2-3:15
- BPB 130

## Discussion Leaders

### Jacob Suggs

- Office: MSB 119
- Email: [suggs at math.uconn.edu](mailto:suggs@math.uconn.edu)

031D MSB303 MoFr 8:00-8:50  
033D MSB211 MoWe 1:00-1:50  
037D MSB307 WeFr 3:00-3:50

### Christopher Buechler

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034D MSB407 MoWe 3:00-3:50  
035D MSB303 MoWe 4:00-4:50  
036D MSB411 MoWe 5:00-5:50

## Class home page:

<http://www.math.uconn.edu/~haas/math1132f09/>

This page and its links have more detail on all aspects of the course. Please read them. Announcements, sample exams and course updates will appear there.

**Text:** Calculus, Early Transcendentals, Volume 2 by James Stewart (6th Edition), with Enhanced WebAssign (EWA) code. There are several different ways to buy the text along with Enhanced WebAssign access.

**Calculators:** Graphing calculators are recommended.

**Homework and Exams:** There will be frequent homework (using EWA), weekly quizzes, two midterm exams and a final. There will also be a basic skills exam in integration, called the Gateway--that you need to pass.

## Grading:

Homework	10%
Quizzes	15%
Midterm 1 - October 6	20%
Midterm 2 - November 10	20%
Final	35%
Gateway	0%

Math 1132 is the mainstream second semester calculus course, covering integration, applications of integration, series and sequences, parametric curves and calculus in polar coordinates. It is assumed that students have a thorough background in precalculus subjects, differential calculus and beginning integral calculus; including the definition of the integral, the Fundamental Theorem of Calculus, basic techniques of integration and the calculation of areas between curves. These last subjects will be reviewed--rapidly--at the beginning of the course.

The course is taught in three lectures and many small discussion sections. All of the sections share the same text, course outline, midterms and final exams but may differ in some details.

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## Outline

Week	Date	Section	Topic
1	8/31	5.2	Definite Integral
		5.3	Fundamental Theorem of Calculus
		5.4	Indefinite Integrals
		5.5	Substitution
2	9/7	No Class	Labor Day
	9/8	6.1	Areas between Curves
		6.2-6.3	Volumes
3	9/14	6.4	Work
		6.5	Average Value
		7.1	Integration by Parts
4	9/21	7.2	Trigonometric Integrals
		7.3	Trigonometric Substitution
5	9/28	7.4	Partial Fractions
		7.5	Strategies
		7.8	Improper Integrals
		---	Review Exam 1
6	10/5	---	Review Exam 1
	10/6	Exam 1	6-8 PM <b>Rooms</b>
		11.1	Sequences
		11.2	Series
7	10/12	11.2	Series continued
		11.3	Integral Test
		11.4	Comparison Test
8	10/19	11.4	Comparison Test continued
		11.5	Alternating Series
		11.6	Ratio & Root Tests
9	10/26	11.7	Strategies
		11.8	Power Series
		11.9	Representation of Functions as Power Series
10	11/2	11.10	Taylor Series
		8.1	Arc Length
		---	Review for Exam 2
11	11/9		Review for Exam 2
	11/10	Exam 2	6-8 PM <b>Rooms</b>
		8.3	Applications to Physics and Engineering
12	11/16	8.5	Probability
		10.1	Curves Defined by Parametric Equations
		10.2	Calculus with Parametric Curves
11/24	No Class	Thanksgiving Recess	
13	11/30	10.2	Calculus with Parametric Curves continued
		10.3	Polar Coordinates
		10.4	Areas & Arc Lengths in Polar Coordinates
14	12/7	Appendix H	Complex Numbers
		---	Review for final exam