

Math 241 is a fourth-quarter course in calculus, focused mainly on extending the results of single-variable calculus to the more general multivariable setting. Time permitting, we cover partial derivatives, multiple integrals and vector calculus. The overall goals of the course are to:

- ▶ Understand partial differentiation and use it in applications, such as tangent planes and optimization problems (both with and without constraints)
- ▶ Understand multiple integration and use it in applications, such as volume and surface area
- ▶ Work with vector fields and vector integral theorems

Instructor Information

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Course Website

We have a dedicated course website, where you can find the homework assignments, information on the latest quizzes (including solutions), exam information, the topics schedule for the quarter, and a forum in which everyone is invited to post questions and comments.

<http://robertweaston.com/teaching/math241>

Important Dates

<i>September 19</i>	Classes begin
<i>October 10</i>	Exam I
<i>November 7</i>	Exam II
<i>November 11</i>	Academic holiday (Veterans Day)
<i>December 5</i>	Classes end
<i>December 9-13</i>	Final Exam Week

Textbook

The course follows Chapters 14-16 in *Thomas' Calculus, 12th ed.*, by Weir, Maurice, et. al. All homework problems are taken from this book.

Homework

Homework is assigned weekly, with problems selected from the course textbook. Homework will not be collected, but quiz and exam problems will be based on the homework. It is important to work through enough of the assigned problems until you feel comfortable with all of the material.

Exams

There are two in-class midterm exams, tentatively scheduled for:

- ▶ Exam 1: Thursday, October 10
- ▶ Exam 2: Thursday, November 7

The final exam is scheduled for:

- ▶ 4:10-7pm on Friday, December 13

Make-up Policy

If you have a scheduling conflict with an exam, contact me *prior* to the exam in order to schedule a make-up. Exams may be taken *early* or *the following class day*. Exams taken two or more class days late will be subject to a **late exam penalty** of 10% per day. All make-ups must be completed within one week of the original exam date.

ACCOMMODATIONS

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact me as well as the Disability Resource Center (Building 124, Room 119; Tel: (805) 756-1395), as early as possible in the term.

Grading

The overall course score is determined as follows:

- ▶ Quiz Average (lowest dropped): 25%
- ▶ Exam I: 20%*
- ▶ Exam II: 20%*
- ▶ Final Exam: 35%*

If your percentage on your final exam is higher than your percentage on an in-class exam, then the worth of your final exam will increase by 5% and the worth of the in-class exam will decrease by 5%. This applies to both exams, so if your final exam score is better than both of your in-class exams, then your final exam will be worth 45% of your overall score and each of your two in-class exams will be worth 15%.

Calculators

Calculators are not used in a systematic way in this course, and are not allowed during exams.