

Course Information

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Instructor:	<i>Phone number:</i>	(502)852-5845 (x5845)
	<i>Office:</i>	Natural Sciences Building 231
	<i>Office hours:</i>	Wednesday 10:00–11:00, Thursday 13:00–14:00
	<i>Alternative office hours:</i>	Wednesday 11:00–12:00, Thursday 12:00–13:00

Lecture: MTR 2:30–3:45 PM in Natural Sciences Building 212E

Prerequisites: MATH 205, EAC 101, or ENGR 101.

Description: Continuation of MATH 205; introduction to infinite series.

Textbook: *Calculus, Early Transcendentals* by James Stewart, sixth edition, chapters 5–11.

Objectives: In this class, we will learn techniques of integration and applications of the integral, and be introduced to differential equations, polar coordinates and infinite series.

Responsibilities: You are responsible for attending class on a regular basis and maintaining comprehension of the scheduled class objectives for each day. You are expected to be active participants in class, and to attend examinations. Assignments are provided for your benefit and you are expected to work on them as necessary to grasp concepts for the course.

Special needs: Any scheduled absence during a quiz or examination, or any other special needs, *must* be brought to my attention during the first week of class. Unscheduled absences will be handled on a case-by-case basis, with exceptions generally made only for documented emergencies.

Calculators: Calculators are unnecessary for any in-class work, and may not be used on quizzes or examinations. Calculators will also be unnecessary for most homework problems, but may be used at your discretion. For any calculation more complicated than the evaluation of functions, you are expected to show your work.

Honesty: There are many resources available to help you succeed in this class, including consultation during office hours, secondary textbooks, and cooperation with other students. It is important, however, that all papers handed in be the result of your individual comprehension of the course material. Duplication of others' work is both a disservice to your own education and a serious violation of the university's academic honesty policy.

Grades: Homework is ungraded and is provided for study purposes. Quizzes will be based on the homework problems, and will account for 25% of your grade. The three midterm examinations will each be worth 15%, and the final examination is worth 30%. A 90% overall guarantees a grade of A–, 80% guarantees a B–, and 70% guarantees a C–.

Changes: The syllabus is subject to change. Changes will be announced in class and updated online.

Course Schedule

This schedule is tentative and subject to change.

Week	Monday	Tuesday	Thursday
1	August 25 Review	August 26 Section 5.5	August 28 Section 6.1
2	September 1 Labor day	September 2 Section 6.2	September 4 Section 6.3 Quiz #1
3	September 8 Section 6.5	September 9 Section 7.1	September 11 Section 7.2
4	September 15 Section 7.3	September 16 Section 7.4	September 18 Section 7.5 Quiz #2
5	September 22 Section 7.7	September 23 Section 7.8	September 25 Exam #1
6	September 29 Section 8.1	September 30 Section 8.2	October 2 Section 8.3 Quiz #3
7	October 6 Section 8.5	October 7 Section 9.1	October 9 Section 9.2
8	October 13 Midterm break	October 14	October 16 Section 9.3 Quiz #4
9	October 20 Section 9.4	October 21 Section 9.5	October 23 Exam #2
10	October 27 Section 9.6	October 28 Section 10.1	October 30 Section 10.2 Quiz #5
11	November 3 Section 10.3	November 4 Section 10.4	November 6 Section 10.5
12	November 10 Section 11.1	November 11 Section 11.2	November 13 Section 11.3 Quiz #6
13	November 17 Section 11.4	November 18 Section 11.5	November 20 Section 11.6
14	November 24 Review	November 25 Exam #3	November 27 Thanksgiving
15	December 1 Section 11.8	December 2 Section 11.9	December 4 Section 11.10 Quiz #7
16	December 8 Review	December 9 Review	December 11 No class
17	Wednesday, December 17 Final exam, 11:30PM-2:00PM		

Problem Sets through Exam #1

Boldface problems are particularly advanced and will test problem-solving skills beyond the core of the course material.

- Complete by *August 28* in preparation for *Quiz #1*:
 - *Section 5.5*: 3, 5, 11, 13, **17**, 19, 23, 29, 51, 55, **57**, 67, 77.
- Complete by *September 4* in preparation for *Quiz #1*:
 - *Section 6.1*: 1, 3, 7, 11, **15**, 17, 29, 31.
 - *Section 6.2*: 3, 5, 9, **13**, 17, 19–29. You need not sketch solids.
- Complete by *September 11* in preparation for *Quiz #2*:
 - *Section 6.3*: 3, 7, 11, 17, **23**, 29, **31**.
 - *Section 6.5*: 1, 3, 5, 7, 13.
 - *Section 7.1*: 1, 3, 7, **11**, **17**, **23**, 33, 37.
- Complete by *September 18* in preparation for *Quiz #2*:
 - *Section 7.2*: 3, 5, **15**, 25, 31, **35**.
 - *Section 7.3*: 1, 3, 7, 9, 11, 17, 19, **23**.
 - *Section 7.4*: 1, 3, 5, 9, 15, **17**, 19, 39, **43**.
- Complete by *September 25* in preparation for *Quiz #3*:
 - *Section 7.5*: 1, 3, 5, 7, 9, 11, 13, 15, **17**, **19**, 25, **33**, 37, 43, 59.
 - *Section 7.7*: 7, 9, 15, 19, 27. You may need a calculator to do these.
 - *Section 7.8*: 1, 5, 11, 15, 27, 31, 35.