

Course Information

Instructor:	<i>Name:</i>	Jake Wildstrom
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	<i>Office:</i>	Natural Sciences Building 231
	<i>Office hours:</i>	M16:00–17:00, R12:00–13:00
	<i>Alternative office hours:</i>	M12:30–13:30, T11:00–12:00, or by appt.

Course Websites:

http://blackboard.louisville.edu/bin/redirect_temp.pl?course_id=MATH-301-01-4108

<http://aleph.math.louisville.edu/teaching/2010FA-301>

Lecture: MWF 11:00–12:15 in Natural Sciences Building 212E

Prerequisites: MATH 206 or ENGR 102.

Description: Differential and integral calculus of functions of several variables, vector analysis, solid analytic geometry, introduction to topics in differential equations.

Special notes: Credit may not be received for both MATH 301 and ENGR 201.

Textbook: *Calculus, Early Transcendentals* by James Stewart, sixth edition.

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 quizzes and examinations. Assignments are provided for your benefit and you are expected to work on them for your own benefit in order 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 simple arithmetic, 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 texts, 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 one-sixth of your grade. The three midterm examinations will each be worth one-sixth, and the final examination is worth one-third. 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	Wednesday	Friday
1	August 23 Section 12.1	August 25 Section 12.2	August 27 Section 12.3 Add/drop date
2	August 30 Section 12.4	September 1 Section 12.5	September 3 Section 12.6 Quiz #1
3	September 6 Labor day	September 8 Section 12.6	September 10 Section 13.1
4	September 13 Section 13.1	September 15 Section 13.2	September 17 Section 13.2 Quiz #2
5	September 20 Section 13.3	September 22 Section 13.4	September 24 Exam #1
6	September 27 Section 14.1	September 29 Section 14.2	October 1 Section 14.3 Quiz #3
7	October 4 Section 14.4	October 6 Section 14.5	October 8 Section 14.6
8	October 11 Midterm break	October 13 Section 14.7 Withdrawl date	October 15 Section 14.8 Quiz #4
9	October 18 Section 15.1	October 20 Section 15.2	October 22 Exam #2
10	October 25 Section 15.3	October 27 Section 15.4	October 29 Quiz #5
11	November 1 Section 15.5	November 3 Section 15.6	November 5 Section 15.7
12	November 8 Section 15.8	November 10 Section 15.9	November 12 Section 16.1 Quiz #6
13	November 15 Section 16.2	November 17 Section 16.3	November 19 Section 16.4
14	November 22 Exam #3	November 24 Thanksgiving	November 26
15	November 29 Section 16.5	December 1 Section 16.6	December 3 Section 16.7 Quiz #6
16	December 6 Section 16.8	December 8 No class	December 10
17	Monday, December 13 Final exam, 11:30-14:00		

Problem Sets through Quiz #1

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

- Complete by *August 27* in preparation for *Quiz #1*:
 - *Section 12.1*: 3, 5, 7, 9, 11, **13**, 15, 21, 23, 25, 27, 29, 31, 33, 35, **39**.
 - *Section 12.2*: 3, 5, 13, 15, 17, 19, 21, 23, 25, **31**, 35, **37**, **39**.
- Complete by *September 3* in preparation for *Quiz #1*:
 - *Section 12.3*: 1, 3, 7, 9, **11**, 15, 19, 23, 25, **27**, 35, 37, 39, 41, **43**, 47, **51**, . Trigonometric and inverse trigonometric functions may be left unreduced.
 - *Section 12.4*: 1, 3, 7, 9, 11, 13, 15, 19, 27, 29, 33, 37, 39.
 - *Section 12.5*: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, **21**, 23, 25, 27, 29, 31, **33**, 35, **37**, 43, 45, 49, 51, 57, 61, **69**, **71**.