

# MATH 206-75 CALCULUS II

SPRING 2008

## Syllabus

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Office Hours: TR 3:30 - 5:00PM, and by appointment

**Course Meetings** TR, 5:00 - 6:45 PM, EH 215

**Textbook** Calculus, Early Transcendentals, Sixth Edition-by James Stewart, published by Brooks/Cole Publishers Co.

**Prerequisites** MATH 205 or EAC 101

**General Ed Requirement** This course satisfies the general education requirement in the Content Area of Mathematics.

**Course Content/Goal** This course is a continuation of Calculus I. We will cover the material in chapters 6, 7, 8, 10, and 11 of the text. Topics include area and volume, methods of integration, applications to physics and engineering, parametric equations, polar coordinates, sequences, and series.

<b>Important Dates</b>	Jan. 7 (Monday) :	Last day of registration
	Jan. 21 (Monday) :	Martin Luther King Jr. holiday
	Feb. 25 :	Last day to withdraw
	Mar. 10-16 :	Spring break, no classes
	April 21 :	End of classes
	April 24 : 5:30 - 8:00PM :	FINAL EXAM

**Procedure** Your final letter grade will be determined by your performance on three midterms, quizzes and a comprehensive 2.5 hours Final Exam. The following is the percentage of each. Extra work might be given for extra points.

Three midterms	45% (15% for each)
Quizzes	25%
Final Exam	30%

Minimum letter grade will be assigned according to the following rule:

$A = 90\%$  or higher,  $B = 80\% - 89\%$ ,  $C = 70\% - 79\%$ ,  $D = 60\% - 69\%$ ,  $F = 59\%$  or less. There will be a plus/minus grade too.

**Blackboard** For your information, your scores and announcements will be regularly updated in BLACKBOARD (<https://blackboard.louisville.edu/webapps/login/>)

**Homework** A list of recommended exercises is included with this syllabus. It is very important to complete the exercises for each section as soon as possible after the section has been covered in class in order not to fall behind. Homework assignments will not be collected.

**Quizzes** Most Fridays there will be a short quiz. There will be no quizzes on the weeks when exams are scheduled. Most quiz problems will be similar to the homework assignments. NO

MAKE-UP QUIZZES will be given. The lowest two quiz scores will not be included in your grade. It is strongly recommended to read the section(s) to be covered before attending each lecture.

**Remarks** 1. The instructor reserves the right to make changes in the syllabus when necessary to meet learning objectives, to compensate for missed classes, or for similar reason.

2. As for academic dishonesty policy, you must read the Section on Academic Policies and Procedures of the University of Louisville.

### TENTATIVE SCHEDULE, SPRING 2007

Week 1 (1/7 - 1/11):	Review, Section 5.5, 6.1
Week 2 (1/14 - 1/18):	Sections 6.2, 6.3, 6.4
Week 3 (1/21 - 1/25):	Sections 6.5, 7.1, 7.2
Week 4 (1/28 - 2/1):	Sections 7.3, 7.4, 7.5
Week 5 (2/4 - 2/8):	Review (Tu), Exam I (Th)
Week 6 (2/11 - 2/15):	Sections 7.8, 8.1, 8.2
Week 7 (2/18 - 2/22):	Sections 8.3, 8.5, 10.1
Week 8 (2/25 - 2/29):	Sections 10.2, 10.3, 10.4
Week 9 (3/3 - 3/7):	Review (Tu), Exam II (Th)
Week 10 (3/10 - 3/14):	Spring break, no classes
Week 11 (3/17 - 3/21):	Sections 10.5, 10.6, 11.1
Week 12 (3/24 - 3/28):	Sections 11.2, 11.3, 11.4
Week 13 (3/31 - 4/4):	Review (Tu), Exam III (Th)
Week 14 (4/7 - 4/11):	Sections 11.5, 11.6, 11.8
Week 15 (4/14 - 4/18):	Sections 11.9, 11.10, Review
Week 16 (4/21 - 4/25):	Final Exam on 4/24, 5:30-8:00 PM, in classroom

### Recommended Exercises

Section	Problems
5.5	7–43 odd
6.1	1–25 odd, 45
6.2	1, 3, 7, 11, 13, 17, 33, 43
6.3	3, 5, 7, 9, 11, 13, 15, 17, 41
6.4	1, 7, 9, 15, 17
6.5	1–9 odd, 17, 19
7.1	3–15 odd, 19–33 odd
7.2	1–33 odd, 41, 43
7.3	1–29 odd
7.4	3, 5, 9, 15, 19, 23, 29
7.5	1–51 odd, 55–79 odd
7.8	1–35 odd, 41
8.1	5, 7, 9, 15
8.2	1, 3, 5, 7, 11, 13, 25
8.3	1, 3, 7, 11, 15, 19, 21, 23, 27, 29, 31
8.5	9, 11, 13
10.1	1, 3, 7, 9, 11, 13, 15, 21, 24, 25, 27, 28
10.2	1, 3, 5, 7, 11, 15, 17, 39, 41, 45, 59, 74
10.3	1–14, 15, 19, 21, 23, 29–43 odd, 54, 55, 59
10.4	3, 5, 9, 13, 17, 21, 45, 47
10.5	1, 5, 9, 11, 13, 17, 19, 21, 25–47 odd
10.6	1, 3, 5, 9, 11, 15
11.1	3–39 odd
11.2	1, 9, 10, 11–39 odd
11.3	3–23 odd
11.4	1, 2, 3–31 odd
11.5	1–19 odd, 23, 27
11.6	1–23 odd
11.8	3–19 odd, 23, 25, 27
11.9	3–11, 15, 23, 25
11.10	3, 5, 7, 11, 13, 15, 25, 27