

Course Syllabus

Calculus II

Spring 2007

12473 Math 2419.004 MWF 2:30 -3:20pm GR 3.420

Instructor Information

Instructor: Dr. Bentley Garrett
Office: ECSN 2.510
Phone: 972-883-4236
E-mail: btg032000@utdallas.edu or via WebCT (see section below)*
Snailmailbox: EC 3.214 (Amanda's office)
Office hours: MW 4:00-5:30pm

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Pre-requisite: A score of at least 4 on the Advanced Placement Calculus BC exam or MATH 2417.

Co-requisites: You must be enrolled in one of the following problem sections.

12446	2019.308	T	11:30am -1:20pm	CB 1.122
12448	2019.310	W	3:30-5:20 pm	CB 1.116
12450	2019.312	R	2:30-4:20 pm	CB 1.106

During these sessions, the TA will review class material, review relevant material from pre-requisite courses, discuss the quizzes and exams, work problems, or have students work problems. **You will also take the quizzes at this time.** If you have questions, this is the time to ask them.

Course Description

Improper integrals, sequences, infinite series, power series, parametric equations and polar coordinates, vectors, vector valued functions, functions of several variables, partial derivatives and applications, multiple integration.

Student Learning Objectives/Outcomes

- (1) Students will be able to formulate real world problems into mathematical statements.
 - Given a narrative description of a problem that lends itself to mathematical analysis, the student will clearly define any variable quantities introduced and provide an appropriate equation, function, or formula relating those variables.
- (2) Students will be able to develop solutions to mathematical problems at the level appropriate to each course.
 - Students will perform specified vector operations and distinguish the result as a scalar or vector quantity.

- Given a multivariable function, students will compute a partial derivative of specified order and, if instructed, evaluate the partial derivative at a point in its domain.
 - Students will determine the convergence or divergence of an improper integral or an infinite series.
- (3) Students will be able to describe or demonstrate mathematical solutions either numerically or graphically.
- Students shall provide a qualitative, planar sketch which clearly indicates prescribed attributes.

Required Textbooks and Materials

Text: *Calculus*, 8th Edition, Larson, Hostetler, and Edwards

Suggested Course Materials

Solutions manual: The Student Solutions Manual is recommended and available in the bookstore

Calculators: A scientific calculator is recommended. Graphing calculators, programmable calculators, or calculators with non-numeric displays are NOT ALLOWED on quizzes or exams.

*Online resources: WebCT: <http://webct.utdallas.edu> You must enter your NETID username and password to logon to WebCT. Here, you will find the syllabus, problem sets, handouts, etc., as well as a record of your grades. Any messages/e-mails concerning the class will also appear on WebCT. **This is also where you should contact me; just click the Mail link/icon, click Compose Message, click Browse, and select the top name (which is mine.)**

Additional Resources:

The UTD Math Lab is located in McDermott Library in Room 2.412 (phone: 972-883-6707) The hours are 10am until 8pm, Monday through Thursday; Friday and Saturday 10am until 2pm. The Math Lab provides free walk-in tutoring for students. In addition to the help available during normal operating hours, each registered student is entitled to a free, one-hour, individual tutorial per week. Individual tutorials require an appointment which are arranged via learning center personnel.

Academic Calendar (subject to change)

Week		Monday		Wednesday		Friday	
1	1/8	Introduction, Syllabus, Sec 10.2	1/10	Sec: 10.2/10.3	1/12	Sec: 10.4	
2	1/15	MLK Day	1/17	Sec: 10.4/10.5	1/19	Sec: 10.5/11.1	Qz 1
3	1/22	Sec: 11.1	1/24	Sec: 11.2	1/26	Sec: 11.2/11.3	Qz 2
4	1/29	Sec: 11.3/11.4	1/31	Sec: 11.4/11.5	2/2	Sec: 11.5	Qz 3
5	2/5	Sec: 12.1	2/7	Sec: 12.2	2/9	EXAM 1 CN 1.112	
6	2/12	Sec: 12.3	2/14	Sec: 12.4	2/16	Sec: 12.5	Qz 4
7	2/19	Sec: 13.1/13.2	2/21	Sec: 13.3	2/23	Sec: 13.4	Qz 5
8	2/26	Sec: 13.5	2/28	Sec: 13.6	3/2	Sec: 13.7	Qz 6
	3/5	SPRING	3/7	BREAK	3/9	VACATION	
9	3/12	Sec: 13.8	3/14	Sec: 13.10	3/16	EXAM 2 GR 3.420	
10	3/19	Sec: 14.1	3/21	Sec: 14.2	3/23	Sec: 14.3	Qz 7
11	3/26	Sec: 8.8/9.1	3/28	Sec: 9.1	3/30	Sec: 9.2	Qz 8
12	4/2	Sec: 9.3	4/4	Sec: 9.4	4/6	Sec: 9.5	Qz 9
13	4/9	Sec: 9.5/9.6	4/11	Sec: 9.7	4/13	EXAM 3 CN 1.112	
14	4/16	Sec: 9.8	4/18	Sec: 9.9	4/20	Sec: 9.10	QZ 10
15	4/23	Sec: 9.10 Evaluations Last day of class	4/25		4/27	Final Exam 7:00-9:45 am HH 2.402	

1/8 - 1/24

1/25 - 2/4

2/5 - 3/21

3/22 - EOT

Students may withdraw from a class without record.

Students may withdraw from a class with signatures and receive a W.

Students may withdraw from a class with signatures of instructor and advisor receiving a WP(if passing) or WF(if failing).

Students may withdraw from a class for non-academic reasons only.

Assignments

LARSON, HOSTETLER EDWARDS. 8th Edition

SECTION 8.8 page 585: 1,3,5,7,9,15-47odd,71,73,83

SECTION 10.2 page 716: 1a,b,d,3-35odd,39,41,43,45,51,53,69

SECTION 10.3 page 725: 1-55odd

SECTION 10.4 page 736: 1,3,5,11,13,15,23,25,27,29,31,33,35,37,39,41,59,
65,67,73,75,77,79,81,83,85,87,89,91

SECTION 10.5 page 745: 1-25odd,37,39,45,47

SECTION 11.1 page 769: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,
43,45,47,49,51,53,55,57, 63,65,67,83,93

SECTION 11.2 page 778: 1-31odd 35-87odd,91,93,95,97,99

SECTION 11.3 page 787: 1-37odd,43,45,47,49,73,79,81

SECTION 11.4 page 796: 1-19odd,31,33,35,37,41,43,45,47

SECTION 11.5 page 805: 1-29odd,33-51odd,55,57,59,61,75,81-99odd,

SECTION 12.1 page 837: 1,3,5,7,9,11,13,15,23,25,27,29,33,69,71,73,75,77,79

SECTION 12.2 page 846: 1,5,9-23odd,27-41odd,49-67odd

SECTION 12.3 page 854: 1,3,5,9,11,13,15,19,21,25,29.

SECTION 12.4 page 863 1-29odd,35-55odd,65,67,69

SECTION 12.5 page 875 1,3,5,9,11,13,21-39odd

SECTION 13.1 page 892: 1-27odd,31,33,35,37,49,51,53,55,78,83

SECTION 13.2 page 902: 5-21odd,25,27,33,41-53odd,69,61

SECTION 13.3 page 912: 1-39odd,45,47,51-67odd,73-85odd,99

SECTION 13.4 page 921: 1,3,5,7,9,11,13,15,31,33,37

SECTION 13.5 page 929: 1,3,5a,7a,9a,11,13,15,17,19a,21a,23-41odd,51,53,57,59,

SECTION 13.6 page 940: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,41,43,45,49,55,57,59,61

SECTION 13.7 page 949: 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,49,51,

SECTION 13.8 page 958: 1,3,5,7,9,11,13,21,23,25,31,33,53,55,

SECTION 13.9 page 964: 5,7,9,13

SECTION 13.10 page 974: 1-25odd,31,33

SECTION 14.1 page 988: 1-33odd,37-63odd,

SECTION 14.2 page 997: 1,3,7,9,11,13,15,17,19,21,23,25,27,29,33,35,49,51,53,55

SECTION 14.3 page 1006: 1-31odd,37,39,41,

SECTION 14.6 page 1032: 1,3,5,7

SECTION 14.8 page 1047: 1,3,5,7

SECTION 9.1 page 602: 1-19odd, 25-41odd, 47-93odd

SECTION 9.2 page 612: 1-27odd,35-47odd,51-71odd,79,81,83,85,89a,b,117,119

SECTION 9.3 page 620: 1-35odd,79,81,83,85,87,89

SECTION 9.4 page 628: 3,5,7,9,15,17,19,21,23,25,27,29,33,35,41-61oddd,79-87odd

SECTION 9.5 page 636: 1,3,5,11-29odd,33,35,37a,39a,41a,43-61odd,79-87odd

SECTION 9.6 page 645: 1,3,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,51-67odd

SECTION 9.7 page 656: 13,15,17,19,21,23,25,27,29,41,43,68

SECTION 9.8 page 666: 1-47odd

SECTION 9.9 page 674: 1-25odd,35,37,39,41,45,47

SECTION 9.10 page 685: 1,3,5,7,9,15-31odd,53,55,57,77,79,81

Grading Policy

Grade: The course grade is determined from the following:

Three Major Exams:	100 pts each, see schedule for dates
10 Quizzes:	25 pts each, one per week during non-exam weeks
Comprehensive Final Exam:	200 pts

Fri Apr 27, 7pm-9:45pm HH2.402

Grade calculation: The course grade is a percentage of 500 possible points. The final exam contributes 200 points, or, 40% of the grade. The remaining 300 points are derived from the three major exams and the quiz total. Your quiz total is the best 8 quiz scores, (the lowest 2 quiz scores are dropped) plus the attendance quiz (cannot be

dropped). The best 3 scores from the quiz total (scaled to a percent) and 3 major exams comprise the remaining 60% of the course grade.

Example: Ex1=89, Ex2=75, Ex3=82, (QzTot)/2=94, Final=168. Ex2 score is dropped.
Course percent $= (168+89+82+94)/5=86.6$, letter grade B⁺

Example: Ex1=75, Ex2=85, Ex3=68, (QzTot)/2=38, Final=168. QzTot score is dropped. Course percent $= (168+85+68+75)/5=79.2$, letter grade C+

Grade Scale	[96.6,100]...A+	[93.3,96.6).....A	[90,93.3).....A-
	[86.6,90).....B+	[83.3,86.6).....B	[80,83.3).....B-
	[76.6,80).....C+	[73.3,76.6).....C	[70,73.3).....C-
	[66.6,70).....D+	[63.3,66.6).....D	[60,63.3).....D-
	[0,60).....F		

Course & Instructor Policies

Students that are at risk (those receiving less than 50% on the first two quizzes and those that are retaking Calculus I), may be required to attend a supplemental SI course.

Attendance: Attendance may be taken, if so, it will comprise a quiz score that cannot be dropped.

Citizenship: Any action that disturbs your classmates or interrupts the lecture is unacceptable. Examples of such actions are:

- Entering the classroom late - be as punctual as possible.
- Leaving the classroom before break or before the end of lecture.
- Cell phones, ringers, buzzers, beepers, alarms, raspberries, blackberries - turn them off! unless you are a member of an emergency response team.

An apology is expected from anyone creating such a disturbance.

Student participation in class is desired, however, please raise your hand to speak and avoid having side conversations with your classmates.

There will be **no** extra credit

Make-up exams/quizzes:

- There will be no make-up quizzes.
- There will be no make-up exams unless the circumstances are extraordinary.
- Exams and quizzes are closed book, without notes, and without graphing calculators.
- SHOW ALL WORK on quizzes and exams. Unsupported answers are considered miracles and, while inspirational, will receive little or no credit. Graded quizzes and major exams will be returned to you as soon as possible. Any document not picked up by the end of finals week will be destroyed.
- Final exams are not returned to the student but are held for review for one year.

General University policies on Academic Integrity, Incomplete Grades, and other important topics, form part of this Syllabus, and are to be found in the version of the Syllabus posted on the Web.