Course Syllabus								
Sumr	ner 2019			Calculus of Several Variables				
50275	MATH 2415.0U1	MW	12:30pm-02:45pm	JO 4.102	ANATOLY EYDELZON			
50335 50329	MATH 2415.8U1 MATH 2415.8U2	M M	05:30pm-07:45pm 05:30pm-07:45pm	CB 1.219 GR 4.204	MARWAH SOLIMAN SIJIE SHEN			

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Instructor Information

Instructor: Dr. Anatoly Eydelzon Office: FO 2.604G Phone: 972-883-6593 E-mail: <u>anatoly@utdallas.edu</u> Campus Mail: Mail Stop FO 35 Office hours: Thursday, 3pm - 4pm by appointment only (please notify me until 8pm on Wednesday) Contact preference: email

TA-s Information

Sijie Shen	Marwah Soliman
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E-mail: Sijie.Shen@utdallas.edu	E-mail: Marwah.Soliman@utdallas.edu
Office hours: M, 11:30am – 12:30pm	Office hours: M, 11:00am – 12:00pm
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Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisite: A grade of C- or better in MATH 2414.

Co-requisites: Enrollment in one of the problem sections 2415.8U1 or 2415.8U2 is mandatory.

During problem section, the TA will:

- review class material and relevant material from prerequisite courses
- return and discuss quizzes, homework assignments and exams
- work problems, or have students work problems
- entertain questions
- administer quizzes
- collect homework assignments

Course Description

The course covers differential and integral calculus of functions of several variables. Topics include vector valued and scalar functions, partial derivatives, directional derivatives, chain rule, Lagrange multipliers, multiple integrals, double and triple integrals, the line integral, Green's theorem, Stokes' theorem,

Student Learning Objectives/Outcomes

- (1) Students will be able to formulate real world problems into mathematical statements.
- (2) Students will be able to develop solutions to mathematical problems at the level appropriate to each course.
- (3) Students will be able to describe or demonstrate mathematical solutions either numerically or graphically.

Required Textbooks, Materials and Additional Resources

- Textbook: Calculus (Early Transcendentals), Eighth Edition, by James Stewart.
- **Calculators:** Calculators, cellphones, computers, tablets or any other electronic devices are not allowed on quizzes and exams.

Wk	Μ	LECTURE	LAB	W	LECTURE
1	5/27	Memorial Day	Memorial Day	5/29	12.3, 12.4
2	6/3	12.5, 12.6	12.3, 12.4, 12.5, 12.6	6/5	13.1, 13.2, 13.3
3	6/10	13.4, 14.1, 14.3	QUIZ 3, HW 3 DUE 13.1, 13.2, 13.3, 13.4	6/12	14.4, 14.5
4	6/17	14.6, 14.7	NO QUIZ, HW 4 DUE 14.1, 14.3 14.4, 14.5	6/19	Midterm 1
5	6/24	14.8	QUIZ 5, HW 5 DUE 14.6, 14.7, 14.8	6/26	15.1, 15.2
6	7/1	15.3, 15.4	QUIZ 6, HW 6 DUE 15.1, 15.2, 15.3, 15.4	7/3	15.5, 15.6
7	7/8	15.7, 15.8	QUIZ 7, HW 7 DUE 15.5, 15.6, 15.7, 15.8	7/10	15.9, 16.1
8	7/15	16.2, 16.3	NO QUIZ, HW 8 DUE 15.9, 16.1, 16.2	7/17	Midterm 2
9	7/22	16.4, 16.5	QUIZ 9, HW 9 DUE 16.3, 16.4, 16.5	7/24	16.6, 16.7
10	7/29	16.8, 16.9	QUIZ 10, HW 10 DUE 16.6, 16.7, 16.8, 16.9	7/31	Review
11	8/5	HW 11 DUE Exam 3			

Schedule (subject to change). Examination weeks are in red.

Reviews and Tutorials, in addition to the schedule above

These activities are not mandatory but are highly recommended

Md Arafat Khan, <u>arafat@utdallas.edu</u> Adrian Murza, <u>Adrian.Murza@utdallas.edu</u>

6/18/2019 Midterm 1 Review, Arafat, 4pm – 5:30pm, GR 3.302 7/16/2019 Midterm 2 Review, Adrian, 4pm – 5:30pm, GR 2.302 (different room, not an error)

All tutorials will take place on Thursdays at 4pm – 5:30pm in GR 3.420. 5/30/2019 Arafat 6/6/2019 Adrian 6/13/2019 Arafat 6/20/2019 Adrian 6/27/2019 Arafat 7/11/2019 Adrian 7/18/2019 Arafat 7/25/2019 Adrian

Grade Policy

The course grade is determined from the following:

Weights:	20% Quizzes scaled to 100%
-	20% Homework scaled to 100%
	60% Midterm and Final Examinations together $(20\% + 20\% + 20\%)$
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

- Homework assignments will constitute 20% of your course grade. There will be nine homework assignments. The lowest score will be dropped, and the remaining eight scores will be scaled to 100%. Homework is due at the beginning of the problem section, except of the homework 11 which is due at lecture before Exam 3. Homework 11 will not be dropped.
- Quizzes will constitute 20% of your course grade. There will be six quizzes. The lowest score will be dropped, and the remaining five scores will be scaled to 100%. Each quiz will be administered during the problem section and will be returned to you at the next meeting of your problem section.
 - Major examinations will constitute 60% of your course grade.

Midterm 1: Wednesday, 6/19/2019, during the class time

Midterm 2: Wednesday, 7/17/2019, during the class time

- Exam 3: Monday, 8/5/2019, during the class time
 - Exam 3 is not returned to the student but is held for review for one year.
- After a grade (homework, quiz, exam) is posted you have one week to discuss the grade with your TA or instructor. No exceptions.

Course & Instructor Policies

Attendance: Mandatory and will be taken during every lecture. Homework is due at the beginning of the problem Section. You must be present the whole duration of the problem section to take quiz at the end of the class. 1 point will be deducted from your class grade for every absence from lecture starting from the fourth absence. If you are late for more than 15 minutes you will be considered absent for the day.

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

(a) Entering the classroom late - be as punctual as possible.

(b) Leaving the classroom before break or before the end of lecture.

(c) Cell phones, ringers, buzzers, beepers, alarms, 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.

Exam/Quiz/Homework policies

(a) There will be no make-up quizzes.

(b) There will be no make-up homework assignments.

(b) There will be no make-up exams unless the circumstances are extraordinary.

(c) Exams and quizzes are closed book, without notes, and without calculators.

(d) SHOW ALL WORK on quizzes and exams. Unsupported answers are considered miracles

and, however 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.

Official UTD Policies

http://coursebook.utdallas.edu/syllabus-policies/

This policies are considered to be a part of this syllabus.