

Math 282 Winter 2010 23418

Office Hours: Monday, Wednesday, Friday 1000-1050 or by appointment.

Meets MUWF 0900-0950 in Math 306 DEA

Text: MultiVariable Calculus 6th Edition James Stewart (Thomson Brooks/Cole) is the preferred textbook. However the 5th Edition of the textbook is equally acceptable. Homeworks will be assigned using [WEBASSIGN](#). You will need to purchase access to WEBASSIGN -- a "courtesy" 10 day free access will be available starting Monday January. The homeworks provided on this syllabus are samples -- yours may be slightly different.

Organization. Homework is probably the most important activity in the course in terms of helping you internalize the material. Homework will be due each Tuesday on the material of the previous week. The Monday class period will be a discussion section for the homework to be due the subsequent day - there will be a quiz the last 20 minutes of class most Monday's.

Grades:

100 points Homework and Quiz Average (The 2 lowest scores from the combined list of HW and QZ scores will be dropped)

100 points Exam #1 Tuesday January 26 2010

100 points Exam #2 Tuesday February 23 2010

200 points [Final Exam](#) 10:15 Monday, March 15 **According to faculty legislation, final exams may not be given early under any circumstances.**

Your final grade will be assigned on the basis of the total point score of 500 points. Any student getting at least a B on the final will receive at least a C- in the course. You must bring your photo ID to all exams. You may bring a 3x5 inch index card with any formulas on it to any exam or quiz if you wish. Similarly, you may bring with you a hand held graphing calculator to any exam or quiz if you wish.

Teaching Associate: Ekaterina Puffini. Additional information: [Academic calendar](#) and [Final Exams](#)

Reading Assignments

- . [Week 1](#) January 4: Homework due Tuesday Jan 12

- 0. Section 16.1 Double integrals over rectangles,
- 0. Section 16.2 Iterated integrals
- 0. [Week 2](#) January 11: Homework due Wednesday January 20
- . Section 16.3 Double integrals over General Regions,
- 0. Section 16.4 Double integrals in Polar Coordinates
- 0. [Week 3](#) January 19: Homework due January 26 (MLK Day
Monday January 18)
- . Section 16.5 Applications of double integrals,
- 0. Section 17.7 (the part dealing with Surface area)
- 0. Section 16.6 Triple Integrals
- . [Week 4](#) January 25: Review, **Exam Wed January 27.**
- . Section 16.7, 16.8 Triple Integrals in Cylindrical and
Spherical Coordinates
- 0. [Week 5](#) February 1:
- . Section 16.9 Change of Variables in Multiple Integrals.
- 0. Section 17.1/16.1 Vector fields
- 0. [Week 6](#) May Feb 8:
- . Section 17.2 Line Integrals,
- 0. Section 17.3= The fundamental theorem for line integrals.
- 0. [Week 7](#) February 15:
- . Section 17.4 Green's theorem:
- . Section 17.5 Curl and divergence:
- . [Week 8](#) : February 22 Review, **Exam Feb 24**
- . Do Section 17.6 Parametric surfaces and their areas
- 0. [Week 9](#) March 1
- . Do Section 17.7 Surface integrals:
- . Do Section 17.8 Stoke's theorem:
- 0. [Week 10](#) March 8: Homework due June 10
- . Section 17.9 The divergence theorem:
- 0. Discussion of "sneaky tricks".
- Week 11** Final Exam 10:15 Monday, March 15.