

Peter B Gilkey

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Mathematics Department, University of Oregon, Eugene Oregon 97403 USA

Math 282 Winter 2012 TBA

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

Meets MUWF 08:00-08:50 in TBA.

Text: MultiVariable Calculus by James Stewart (Thomson Brooks/Cole) is the textbook. (6th Edition (2008) ISBN 9780495011637 from Cengage Publishing). However the 5th edition, the 6th edition, and the 7th edition are all equally acceptable for this course. Homeworks will be graded using WEBWORKS and the problems will not be specific to the particular edition used -- your account will probably not be active until sometime early January 2012. Each student's login will be their duckid (the part of their UO email address before the "@") and their initial password will be their ID number. If a student's email address does not show up on the roster though, their login and initial password will both be their ID numbers.

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 by 0800 - there will be a quiz the last 20 minutes of class most Monday's.

Homework: The homework will be assigned and graded using WEBWORKS. It is due at 0800 PST Tuesday morning following the week for which it was assigned. More details will be available presently.

If you are a student with a documented disability please meet with me soon to discuss your needs. If you have not already requested a notification letter from Disability Services outlining recommended accommodations, please do so soon.

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 Wednesday 1 February 2012

100 points Exam #2 Wednesday 29 February 2012

200 points Final Exam 10:15 Tuesday 20 March 2012 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.

Reading Assignments

Week 19 Jan-13 Jan 2012: Read the material on Double integrals over rectangles and Iterated integrals.

Week 2 17 Jan-20 Jan 2012 (16 Jan is Martin Luther King holiday) Read the material on Double integrals over General Regions and on Double integrals in Polar Coordinates,

Week 3 23 Jan-27 Jan 2012: Read the material on Applications of double integrals, Surface area, and Triple Integrals.

Week 4 30 Jan-3 Feb 2012 Exam #1 Wednesday 1 Feb 2012. Read the material on Triple Integrals in Cylindrical and Spherical Coordinates

Week 5 6 Feb - 10 Feb 2012. Read the material on Change of Variables in Multiple Integrals and on Vector fields.

Week 6 13 Feb - 17 Feb 2012. Read the material on Line Integrals and on The fundamental theorem for line integrals.

Week 7 20 Feb - 24 Feb 2012 Read the material on Green's theorem and on Curl and divergence.

Week 8:27 Feb-02 Mar 2012 Exam #2 Wednesday February 29 2012 Read the material on Parametric surfaces and their areas.

Week 9 5 Mar - 9 Mar 2012: Read the material on Surface integrals and on Stoke's theorem. Week 10 12-16 Mar 2012: Read the material on The divergence theorem.

Week 11 19-23 Mar 2012 Final Exam 10:15 Tuesday 20 March 2012.