

MATH 4013 - Calculus of Several Variables - Fall 2012

INSTRUCTOR: Dr. Roger Zierau

OFFICE: MS502A

OFFICE HOURS: MWF 9:30-10:20 and by appointment

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TIME and PLACE: MWF 11:30-12:20 in MSCS 514

TEXT: *Vector Calculus*, fourth edition, by S. J. Colley is the textbook. It is required.

PREREQUISITES: MATH 2144, 2153, 2163 (Calculus I, II, III) and MATH 3013 (Linear Algebra).

COURSE CONTENT: This is a course on calculus in 2 and 3 dimensions. We will cover Chapters 2-7 in the textbook. (Chapter 1 is review and will be covered briefly.)

HOMEWORK: Homework will be assigned from each section we cover. The problems will usually be selected from the textbook. Homework will be posted on D2L. Expect homework to be assigned for most lectures. The homework will not be collected. Students should be aware that completing the homework is the only way to prepare for exams and quizzes.

QUIZZES: There will be 8 quizzes throughout the semester. The lowest two scores will be dropped and there will be no make up quizzes. These quizzes will not always be announced ahead of time. They will cover material from recently completed homework assignments.

EXAMS: There will be 3 inclass exams during the semester. The first exam will cover Chapters 2 and 3 and will occur during the last week of September. The final will be Monday, Dec. 10, at 10:00 a.m.

GRADES: The midterms are 100 points each and the final is 140 points. The quizzes will be 10 points each. The total number of points is therefore 500. Letter grades will be assigned as follows:

at least 450 points: guaranteed A

400-449 points: at least a B

320-399 points: at least a C

300-319 points: at least a D

0-299 points: probable F.

Grades will not be curved.

MISSED WORK: Students shall be offered reasonable accommodation in the event that he or she misses an exam for a valid and documented reason. Valid reasons include official University activities, activities associated with military service, illness and family emergencies. Arrangements and appropriate documentation shall be provided by the student in a timely fashion, preferably in advance, to support his or her request for accommodation.

TIPS FOR SUCCESS:

(1) Do all homework problems in a timely fashion. Work out problems completely in a neat and organized fashion. Quiz and exam questions will be similar to homework problems.

(2) Answers to many problems are in the back of the book. However students should come to office hours if they have questions or are unable to solve homework problems. Students who cannot come to office hours are welcome to make an appointment to meet with me; just let me know after class or by email that you would like to meet.

(3) Read each section *before* the lecture covering the section. This will help you understand the lecture more thoroughly.

(4) Reread and study the section after it is covered in class; study (by thoroughly reworking) all examples given in class.

REMARKS: (1) Calculators (and computers) will not be used on quizzes and exams. Whether or not you use technology to help with your homework is up to you; a good use may be in checking solutions to homework.

(2) Students are welcome to email me with specific questions about the material or specific homework problems. I typically check email once a day (M-F) and will try to respond to your questions within a day or so.

D2L: Students are required to use and regularly check D2L since announcements and assignments will be posted on there. Students should be sure to set their email on D2L to an address that they regularly use; certain announcements and reminders will be emailed to students using this address.

ATTACHMENT: See the attached university 'syllabus attachment' for additional information, policies and dates.