MATH2204 - Introduction to Multivariable Calculus

SECTION 88335, FALL 2015

Instructor: Jeremy W ong

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Office Hours: currently, by appointment (with additional hours to be announced later)

Class meetings: Tuesday & Thursday, 3:30 p.m.-4:45 p.m. in Surge Space Building, room 104B

Course Webpages: https://www.math.vt.edu/courses/math2204
https://www.scholar.vt.edu/


Course Information: Calculus is one of the greatest creations of science, forming the foundation for many theoretical as well as applied fields, and grounding the study of differential equations and higher analysis.

This course focuses on functions of several variables. Topics to be discussed include vectors and geometry of Euclidean space, notions of derivatives, applications to (un)constrained optimization, double and triple integrals, coordinate systems in 3D.

The material from the main units of vectors and geometry of space, partial differentiation, and multiple integration roughly corresponds to chapters 12, 13, 14, and 15 of the textbook.

Prerequisite: single variable Calculus (1226 or equivalent)

Grading:

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<tbody>
<tr>
<td>Homework:</td>
<td>12%</td>
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<tr>
<td>WebAssign homework:</td>
<td>8%</td>
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<td>3 Tests (19% each):</td>
<td>57%</td>
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<td>Final examination:</td>
<td>23%</td>
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<td>Total:</td>
<td>100%</td>
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The standard decapercentile scale will apply (e.g., A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: <60).
Percentages of at least 90, 80, 70, 60 guarantee grades of at least A-, B-, C-, D- respectively.

Homework:
Weekly homework from the textbook will be assigned and posted on the course web page. Although you can (and are encouraged to) discuss homework with other students, you should write it up by yourself. It is important to do it because it will help you understand the material, and test problems may be similar to homework problems. The lowest written homework assignment grade will be dropped.

WebAssign homework
We will have online assignments during the semester, roughly once every week except on the week of an exam. The exact dates of these will be announced at least a week in advance. The number of submissions for each question will vary, but in general you will have three attempts at each question. The highest score among submissions will be used to determine the grade for the assignment. WebAssign deadlines can not be extended, in general, unless the extension is for the entire class, or for good reason (e.g. technical computer problem). The lowest WebAssign homework grade earned will be dropped.

Tests:
There will be 3 term tests before the final exam (closed book and notes). Calculators will not be allowed on exams, nor will they be necessary.
Final Exam: Wednesday, Dec 16, 7:00 p.m. - 9:00 p.m.
The comprehensive final examination has two parts: one hour of multiple choice questions, and one hour of free-form response questions.

A student with conflicting examinations, or with more than two officially scheduled examinations in twenty-four hours may reschedule an examination with permission sought by the student from the student’s college dean no later than 3 weeks prior to the start of Final Examinations and by arrangement with the instructor.

Any student with special needs or circumstances should feel free to meet with me during office hours or to schedule an appointment early in the semester.

**Attendance Policy:**
Daily attendance is strongly suggested. Roll may be taken periodically, and is used only to favorably weigh those who at the end of the course have borderline grades.

**Missed work:** In general, there will be no make-up tests or assignments, and late homework may be deducted. If you miss one of the in-class tests for a legitimate reason, your grade will be determined by the remaining in-class tests, homework, and the final exam. A test missed for no reason will be counted as a score of 0.

Students missing any test should submit as soon as possible the proper documents justifying the absence. The value of a properly justified missed assignment (beyond ones which have been dropped) or test will be added to the value of the final exam. But under no circumstances will the final examination be allowed to exceed 65% of the total course grade.

**Academic code:** All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense. See [http://www.honorsystem.vt.edu](http://www.honorsystem.vt.edu). Collaboration with your peers on homework and studying is encouraged, however.

**Tutorials and Additional Help:**
The Math Emporium offers free tutoring. For more information, please go to the Emporium located in the University Mall at 801 University City Blvd., visit [http://www.emporium.vt.edu](http://www.emporium.vt.edu) or call (540) 231-2220.

Perhaps the best source of help, though, is my office hours, which are devoted to helping you.