

MATH 2443: Calculus and Analytic Geometry IV
Course Syllabus
Summer II 2013

Section 270
MTWRF: 10:30 - 11:45 am
PHSC 356

Instructor: Dr. Matt McBride
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Office Hours: TRF: 12:00 – 1:00 pm or by appointment
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Textbook: James Stewart, *Calculus*, 7th Edition

Prerequisites: MATH 2433

Objective: Students will expand on their understanding of the concepts of calculus to several variables. We learn how to take partial derivatives and see common applications used with them. We will see how these “new” derivatives relate to the derivative in calculus of one variable. We learn how evaluate mutiple integrals and see some geometric applications to them such as surface area. Finally we will study what is known as vector calculus and generalize the Fundamental Theorem of Calculus to tie everything together from single variable calculus and multivariable calculus.

Withdrawl Date: Through July 27th, you may drop the course and receive a W grade. Dropping the course after July 27th requires a petition to the Dean, and will result in a grade of either W or F.

Academic Honesty: The University of Oklahoma takes great pride in academic honesty, thus cheating of any kind will not be tolerated. If cheating is suspected, bad actions will be taken.

Students with disabilities: The University of Oklahoma is committed to providing reasonable accomodation for all students with disabilities. If you require special accomodation in this course you are requested to speak with the instructor as early in the

semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. For further information please see <http://drc.ou.edu>.

Homework: As with any math course, homework is a vital component. One must practice newly learned facts, theorems, etc. through the assigned homework. Homework will be assigned daily, however it will not be collected. See the quizzes section below for more details on this. Even though the homework will not be collected it is expected to be completed, as this is necessary to excel in this course.

Quizzes: There will be weekly in-class quizzes with the exception during the weeks the exams will be administered. As mentioned above, homework will be assigned daily, but not collected. Instead the quizzes will come directly from the previous week's homework. Students who have completed the homework will be able to use it on the quiz, however no in-class notes or books will be allowed. This is an incentive to do the assigned homework, plus in order to master mathematics one needs to practice it, hence homework. This can never be stressed enough.

Exams: There will be three closed book, closed notes, and closed homework in-class exams. Students will have the whole class period to take the exams. All three exams will cover roughly eight lessons, though this may be modified due to time and is left up to the discretion of the instructor.

Make-up Policy: Make-up exams and quizzes will be given **only** for reasons deemed acceptable by the instructor, and **only** with written documentation. Make-up exams and quizzes must be taken within one week of the original date, and no make-ups may be taken after the third exam. Make-up exams and quizzes are never easier than the original.

Calculator Policy: You may use a calculator when working on the homework assignments. In class and when taking exams, a calculator is not really needed, but you may, if you wish, use a simple calculator that does not have graphics capability while taking exams, just to check your arithmetic. The reason for the exclusion of graphics capability to make sure that you have the graphs of the fundamental functions like such as trigonometric, logarithm, and exponential in your head.

Grading Distribution:

Quizzes.....40%
Exams.....60%
Total.....100%

Grading Scale:

A:....100% - 90%
B:.....89% - 80%
C:.....79% - 70%
D:.....69% - 60%
F:.....59% and below

Summer II 2013 Tentative Schedule

Note: this may be modified and is left to the discretion of the instructor.

Date	Sections Covered	Homework
Mon, July 1	Vector Review, 14.1	14.1: 9-21 odd, 45,47
Tue, July 2	14.2	14.2: 5-19 odd, 29, 37
Wed, July 3	14.3	14.3: 15-21 odd, 25-35 odd, 49,57,61,78,79
Thu, July 4	no class	none
Fri, July 5	14.4	14.4: 1-5 odd, 11-15 odd
Mon, July 8	14.5, Quiz 1	14.5: 1-11 odd, 18,21,23,27,33
Tue, July 9	14.6	14.6: 5-17 odd, 21-25 odd
Wed, July 10	14.7	14.7: 5,7,13,15,31,43
Thu, July 11	14.8	14.8: 3-11 odd
Fri, July 12	Review for Exam 1	none
Mon, July 15	Exam 1	Covering 14.1-14.8
Tue, July 16	15.1	15.1: 11,14,17,18
Wed, July 17	15.2	15.2: 3-21 odd, 27
Thu, July 18	15.3	15.3: 7,9,17,19,21,29,31,49-54 odd
Fri, July 19	15.4	15.4: 7-13 odd,25,29,40
Mon, July 22	15.7, Quiz 2	15.7: 3-17 odd
Tue, July 23	15.8	15.8: 1-11 odd, 17-23 odd
Wed, July 24	15.9	15.9: 1-13 odd, 21-27 odd, 46
Thu, July 25	15.10	15.10 1-9 odd, 15-19 odd
Fri, July 26	Review for Exam 2	none
Mon, July 29	Exam 2	Covering: 15.1-15.4, 15.7-15.10
Tue, July 30	16.1	16.1: 3,5,11,13,15,21,23,25
Wed, July 31	16.2	none
Thu, Aug. 1	16.2	16.2: 1-15 odd, 19,21
Fri, Aug. 2	16.3	none
Mon, Aug. 5	16.3, Quiz 3	16.3: 3,5,7,13-19 odd
Tue, Aug. 6	16.4	16.4: 5-13 odd
Wed, Aug. 7	16.5	16.5: 5,7,12,13,15,17,25,28,33,34
Thu, Aug. 8	16.6	none
Fri, Aug. 9	16.6	16.6: 3,5,13,15,21,23,33,35,39-47 odd
Mon, Aug. 12	16.7	16.7: 5-15 odd, 21-31 odd
Tue, Aug. 13	16.8	16.8: 3,5,7,9,13,15
Wed, Aug. 14	16.9	16.9: 1-15 odd
Thu, Aug. 15	Review for Exam 3	none
Fri, Aug. 16	Exam 3	Covering: 16.1-16.9