

Math 425B–525B Section 1
Real Analysis of Several Variables
Spring 2007
MWF 10:00–10:50 in SHNTZ 242E

Instructor: W. Faris

Office: Math 620; Telephone: 621-6877; Email: faris@math.arizona.edu

Listserv: mathanalysis2@listserv.arizona.edu

Instructor Home Web Page: <http://math.arizona.edu/~faris/>

Office Hours: Mon 12:00 and Wed 11:00 (in Math 620), Mon 1:00 (in Math 220), or appointment

Text: Patrick M. Fitzpatrick, *Advanced Calculus*, 2nd ed., Thompson Brooks/Cole. Supplementary notes on Stoke's theorem.

Course Content: 1. Metric spaces and continuous functions, completeness, compactness, the contraction mapping theorem. 2. Smooth functions, the inverse function theorem. 3. Integration, the change of variable formula. 4. Green's theorem, Stokes's theorem, the divergence theorem.

Hour exams: February 16
April 2

Final Exam: May 9, 11:00AM–1:00PM

Missed Exams: Missed exams must be justified in writing before the exam and must be approved by the instructor. (In extreme emergency the mathematics office may be telephoned before the exam, with the message that a letter is on the way.) Justification for missing an exam due to a conflict with another scheduled activity must be submitted the first week of classes.

Scores for Missed Exams: A score for a justified missed exam will be assigned based on the average of the other exams. A missed final exam will result in a grade of I or E.

Quizzes: There will be 10 short quizzes during the semester.

Homework: There will be regular homework assignments. No credit will be given for late work, unless it is justified in advance, in writing.

Grading:	2 Hour Exams	200 points
	Quizzes:	100 points
	Homework:	300 points
	Final Exam:	200 points

The numerical scores will be converted to letter grades at the end of the semester. The grading system is that given in the General Catalog (A – Excellent, B – Good, C – Fair, D – Poor, E – Failure). Higher numerical scores will give the same or higher letter grades. The actual cutoff points will depend on the general performance of the class and on the difficulty of the exams.

Withdrawal:	February 6	last drop with deletion
	March 6	last drop with W (passing) or E (failing)
	After March 6	E, or WP/WF if withdrawing from University