Course Syllabus Math 421: Analysis II Spring 2010

Instructor: Richard Siefring

Office: A325 Wells Hall

Tentative office hours: Monday 3pm–4pm, Tuesday 2pm–4pm or by appointment

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Lectures: MWF 11:30am–12:20pm, C113 WH

Prerequisites: MTH 320 is the official prerequisite. Unofficially: basic competence with " ϵ - δ proofs," and familiarity with basics of linear algebra.

Required Text: An Introduction to Analysis by William R. Wade, 4th edition. (The 3rd edition will be sufficient for most purposes.)

MATERIALS COVERED AND COURSE GOALS

We will be covering material from Chapters 5, 8, 9, 11, and (time-permitting) 12 of the course text. Goals for the course include:

- To gain an understanding and appreciation of the theoretical foundations of single and multi-variable calculus.
- To develop and practice skills involved with constructing, writing, reading, and evaluating mathematical proofs.

Homework and Quizzes

Written homework assignments will be posted on the course webpage roughly every 1-2 weeks. Homework assignments will be graded on a combination of completeness and correctness. In order to get full credit on a given problem being graded for correctness your solution must be clearly written, well organized, and contain all details. In writing up homework assignments you may take any result proved in the book or in lecture as given, but you must provide a complete proof of any other result that you use.

While you are permitted, and in fact encouraged, to discuss the homework assignments with your fellow students, you should write your solutions individually. You should list on your homework assignment any people or sources (other than the course instructor or the textbook) that you consulted in completing the assignment.

In addition to written homework assignments, reading assignments and suggested problems meant to complement the lectures will be posted regularly on the course webpage. Careful and active reading is an important component of learning the type of mathematics covered in this course.

Quizzes (usually announced in advance) may be given in class periodically. In the computation of your final grade, each quiz and each homework assignment will be given equal weight, and your lowest score will be dropped before computing your average.

Tests and Exams

There will be two in-class midterm exams and a cumulative final exam. The likely dates of the midterms are 2/15 and 3/22. The final exam will be on Tuesday, 5/4, 7:45am–9:45am in C113 WH. No make-up exams will be given. You may be excused from an exam only in the event of a documented medical or family emergency. In this case, your score for the missing exam will be determined by your scores on the other exams.

GRADING

Your final average for the class will be computed from your homework/quiz, test, and exam grades according to the following percentages:

25% Homework/quizzes			
40% Tests			
35% Final exam.			
Your final grade will then be de	termined using a scale no str	icter than following:	
4.0:>85%	3.5: >79%	3.0: >73%	2.5:>67%
2.0:>62%	1.5:>56%	1.0:>50%	0.0: <50%.

ACADEMIC RESPONSIBILITY

Suspected cases of cheating or plagiarism will be handled in accordance with the university policies governing academic dishonesty.

Important Dates

- 1/11: Classes Begin
- 1/15: Last day to add a course online. Last day to change to CR/NC.
- 1/18: Martin Luther King Day (no classes).
- 1/22: Last day to late add a course or change sections within a course.
- 2/04: Last day to drop a course with full tuition refund.
- 3/03: Last day to drop a course without a grade being reported.
- 3/08 03/12: Spring Break.
- 4/30: Last day of classes.
- 5/04: Final Exam, 7:45am–9:45am, C113WH.