MATH 4443/5443 Section 001
Introduction to Analysis II
MWF 9:30 - 10:20, PHSC 1105

Instructor: Dr. Keri Kornelson
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Office Hours: Mon. 4:30 - 5:30, Tue. 2:00 - 3:00, Fri. 10:30 - 12:00 I am always happy to set up appointments for students who cannot come to office hours.

Course Assignments and Announcements: The readings and homework assignments will be posted on the web each week. You will be notified by email of any changes in the posted assignments. The web address for the assignments is:
`http://www.math.ou.edu/~kkornelson/teaching/m4443/hw-m4443-s10.html`

Textbook: The lectures will be loosely based on *Real Analysis and Foundations*, Second Ed. by Steven G. Krantz, published by Chapman & Hall / CRC. You may also find *An Introduction to Analysis*, Third Ed. by William R. Wade to be a useful second resource. Both books are on reserve at the MATH-CHEM library.

Grading: Your grade will be determined by quizzes, weekly homework, two in-class exams, and a cumulative final exam. The weights of each of these are shown below.

Homework	35%	
Quizzes	10%	
Exam 1	15%	
Exam 2	15%	
Final	25%	Monday, May 10, 2010 8:00 - 10:00 a.m.

You must take these exams at their scheduled time and location, unless you have a university sanctioned excuse. Grades will be assigned according to the following scale:

A	B	C	D	F
85-100%	70-84%	55-69%	40-54%	0-39%

Quizzes: The essential first step in creating a correct deductive argument is knowing precise statements of the applicable definitions and theorems. These MUST become part of your everyday language. Once every 2 weeks, there will be a quiz to check your knowledge of the definitions and theorems.

Readings: There will be pages from the text or other notes posted on the Web that you are expected to read each week. You are responsible for both the material in the reading and the topics discussed in the class lectures.

- It is helpful to make definition/theorem flashcards as you read, to prepare for the next quiz and to help you with the homework problems. If you do this regularly, they are all ready when you are studying for the midterms.
- Reading mathematics always involves a pencil and paper. Try covering the solution to an example with a Post-it and attempting to work it out on your own.

Homework: Homework will be collected each Wednesday. The assignments will be posted on the Web. Here are some guidelines:

- **Collaboration on homework:** You are allowed, in fact encouraged, to work together to figure out proofs on the homework, but *you must acknowledge your collaborators.* Each problem should have an acknowledgment statement giving the names of the other students who worked with you on the solution. You should also acknowledge conversations with me in office hours.

  Collaborations with each other must not result in identical homework papers. The best approach is to work together figuring out the steps of the proof, and then work independently to write it up.

- **Administrative stuff**:
  - You will be expected to write logically correct, understandable proofs. Consider each problem to have two parts – finding the proof, then writing it up neatly. You will be evaluated on both aspects of the assignment.
  - Assignments turned in after 5pm of the due date will be penalized.
  - *Start each problem on a new page.* Put your collaboration statement at the end of each problem.
  - Each assignment should be *stapled* (not paper-clipped, folded, ripped, origami'd, etc.) I reserve the right to take off points!

Make-Up Policy: Make-ups for missed exams will only be allowed for a university-approved excuse in writing. Please let me know as early as possible in the semester if you must miss an exam due to an athletic event or other college activity.

Academic Misconduct: You may work together and ask for assistance in solving homework problems, but you must write up the assignments independently. Work completed on exams and quizzes must be exclusively your own.

Academic dishonesty will not be tolerated in this course. *Don't do it!* You are responsible for reading and abiding by the University's policies concerning academic misconduct, which can be found at

`http://www.ou.edu/provost/integrity/`

You are also bound by the provisions of the *OU Student Code*, which can be found at

`http://judicial.ou.edu/content/view/27/32/`

All cases of suspected academic misconduct will be referred to the Dean of the College of Arts and Sciences for prosecution under the University's Academic Misconduct Code.

Accommodation of Disabilities: Please inform me as soon as possible if you have a disability or special need which requires accommodation in order for you to participate fully in this course. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone: (405) 325-3852 or TDD only (405) 325-4173.