Advanced Calculus

Text

A Friendly Introduction to Analysis.


Course Content and Objectives

We will cover much of Chapters 1-5.

This includes:
Proof Techniques, The Real Number System, Limits and Convergence, Continuity and Differentiability of Functions and some basic results such as The Mean Value Theorem.

NO BARGAINING FOR, OR CHANGING OF, GRADES OR POINTS.

Tentative weekly schedule:

1/6 –1/10: Mathematical Induction and Proof Techniques.

1/13 –
1/17: Functions, Finite and Infinite Sets

1/20- 1/24: The Real Number System.

1/27- 1/31: Some Properties of Real Numbers.

2/3-2/7: Sequences and Convergence.

2/10- 2/14: Limits.


2/24- 2/28: Limits of Functions.

3/10- 3/14: Continuity.


4/7- 4/11: Mean Value Theorems.


Instructor and Office Hours

Murali Rao,
494 Little Hall.
MW: 5th period, F: 4th period.

 Homework, Problems and Exams

Homework will be regularly assigned.
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There will be three tests each of 33 points on Feb 7, Mar 21 and April 21.

IMPORTANT: ALL TESTS ARE CUMULATIVE.

Grading

Grading scale: A: 90 or above; A-: 87-89; B+: 84-86; B: 80-83; B-: 77-79; C+: 74-76; C: 70-73; C-: 67-69; D+: 64-66; D: 60-63; E: < 60.

ABSOLUTELY NO MAKEUPS WITHOUT MEDICAL DOCUMENTATION.

NO REQUESTS FOR EXTRA CREDITS OR EXTRA ANYTHING.

NO BARGAINING FOR, OR CHANGING OF, GRADES OR POINTS.

Academic Honesty

The course will be conducted in accord with the University honor code and academic honesty policy which can be found in the student guide (http://www.dso.ufl.edu/STG/default.html)

Accommodation for students with disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Attendance

Except for the exams, attendance, while recommended, is not required.

Course Information

http://www.math.ufl.edu/~mrao/maa4102_spring2014.html

Course policies:

· Closed-book policy: No use of calculators, or books will be allowed during any in-class tests/quizzes.

· Policy related to make-up exams or other work: There will be no opportunities to make up for work not submitted. However, if a student provides a legitimate excuse well in advance, scores will be prorated. Work with due date should be turned in at the beginning of class on the stated due date. Late work will not be accepted and will be deemed work not submitted.

· Policy on class attendance: Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

· University's honesty policy: UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code". On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a
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either required or implied: "On my honor, I have neither given nor received
unauthorized aid in doing this assignment." The Honor Code
(http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a
number of behaviors that are in violation of this code and the possible
sanctions. Furthermore, you are obligated to report any condition that
facilitates academic misconduct to appropriate personnel. If you have any
questions or concerns, please consult with the instructor or TAs in this class.

- **For students with disabilities:** Students requesting
classroom accommodation must first register with the Dean of Students Office.
The Dean of Students Office will provide documentation to the student who must
then provide this documentation to the Instructor when requesting
accommodation.

- **Students' evaluations of the course:** Students are expected to
provide feedback on the quality of instruction in this course based on 10
criteria. These evaluations are conducted online at
https://evaluations.ufl.edu. Evaluations are typically open during the last two
or three weeks of the semester, but students will be given specific times when
they are open. Summary results of these assessments are available to students
at https://evaluations.ufl.edu/results.