



MAA 4211 Advanced Calculus 1 Fall 2018

Text : Notes on line

Instructor : Murali Rao

Office Lit 494

Office Hr MWF 4th Period.

Test dates Sept 21, Oct 26 Dec 5.

No makeups without adequate documents.

Course Description:

### Course notes

Class Attendance: Recommended but not required.

Grades(Standard) : A : 90+ , A- : 87-89 , B+ : 84-86

B : 80-83 , B- : 77-79 , C+ : 74-76 ,

C : 70- 73 .

Accommodations for Students with Disabilities: "Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester."

Tentative weekly Schedule.

This Schedule is not intended to be rigid.

Weeks of Aug 22-31 :

Review of Sets and Functions and operations .

It is assumed that the participants are more or less familiar with this material.

Secs 1.1–1.3

Week of Sept 5-7 :

Real Numbers and the Least Upperbound Property.

Secs 2-2.1

Week of Sept 10-14 :

Archimedian Property.

Secs 2.2– 2.5.

Week of Sept 17–21:

Continuation and Review for Test 1 on SEPT 21.

Weeks of Sept 24–28 Oct 1–5 :

Metric and Normed Spaces ; Open and Closed sets

Interior and Boundary of a set.

Secs 3–3.5.

Week of Oct 8–12 :

Sequences , Subsequences and Limits.

Secs 4–4.5.

Week of Oct 15–19 :

Liminf and Limsup , Cauchy sequences, Completeness.

Chap 5.

Week of Oct 22– 26 :

Continuation and Review for test 2 on Oct 26.

Weeks of Oct 29–31 Nov 5–9 :

Compactness and Heine–Borel Theorem.

Chap 6.

Weeks of Nov 14–16 and Nov 19 :

Connected sets.

Chap 7.

Weeks of Nov 26–30 Dec 3, 5 :

Continuity, Uniform Continuity . Review for Test 3 on Dec 5.

**Grades:** Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

**Honor Code:** “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](#) 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.”

**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 at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.”

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**Online Evaluations:** “Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations 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/>.”

**Contact information for the Counseling and Wellness Center:** <https://counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

