



## Advanced Calculus I Fall '16

MAA 4211: Advanced Calculus I

University of Florida, Spring 2016

Little Hall 201, MW7 (1:55–2:45)

### Instructor information:

Vince Vatter

Office: Little Hall 412

Office hours: Mondays and Fridays 8th period (3:00–3:50), and by appointment

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### Text:

There is no required text for the course. We will generally follow the online [Lecture Notes](#).

Students wishing to supplement these notes may wish to consult Rudin's [Principles of Mathematical Analysis](#).

### Course Content:

A rigorous treatment of the foundations of Calculus including the real numbers; metric spaces; continuity, differentiation; and sequences and series of functions. In addition to mastery of the course content, course objectives include reading, writing, and discovering proofs and constructing proofs and counterexamples in analysis.

We will cover Chapters 1–8 of the lecture notes.

### Expectations:

Each student is expected to invest a significant amount of work and thought outside the classroom for every hour of lecture. Moreover, work submitted for a grade in this course will be graded in a most rigorous fashion, and thusly, such work should have a great deal of thought and care put into it. Work which is sloppy or messy or that which is not written in a clear and coherent fashion will be marked down. This includes losing points for grammatical errors, spelling mistakes, and similar offenses. This course is a gateway course to many upper-division mathematics courses, and the high level of work that will be expected in this course is to ensure that students who pass this course have the best opportunity for success in future math courses.

### Assignments & grading:

We will have three exams throughout the semester. No books or notes will be allowed during the exams.

In addition to the exams, homework will be collected and graded roughly once a week, for a total of 10–15 problems throughout the semester. In addition several problems will be assigned each lecture (not to be turned in). Late homework will not be accepted, but the lowest homework score will be dropped.

Homework submissions in LaTeX are encouraged. I will provide a template tex file for you to use.

Your course score will consist of your homework average (25% of the score) and the three midterm exams (each 25% of the score). Final letter grades will be assigned on a curve, which will be no tougher than the 10-point scale: 90%–100% will be some form of A, 80–90% will be at least some form of B, etc.

If you have a disagreement with the grading of one of your solutions, I ask that you submit a written request for reconsideration within one month.

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

### Miscellaneous:

**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.

**Class Attendance:** Attendance will not be monitored. If you are going to miss a day that homework is due, I ask that you either have someone else in the class bring your homework or email it to me before class. 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>.

**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.

**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/>.

**Complaints:** The official UF policy for filing a complaint about the course may be found [here](#).

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

**U Matter, We Care:** Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.