

MAA 4102/5104: Advanced Calculus 1, Spring 2022

Time: MWF, 9:35 – 10:25

Location: LIT 221

Instructor: Libin Rong

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Office: Little Hall 452

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Office hours: MW, 1:55 – 2:45 or by appointment

Course description and goal: The primary goal of the course is to obtain a sound understanding of the basic mathematical concepts of calculus. A secondary goal is to improve the ability to reason carefully and creatively when dealing with mathematical material. The emphasis of the course is on theory and proofs. We will cover most of the first five chapters of the textbook. Topics include functions, sequences, limits, continuity and differentiation.

Who should take this course: The fundamental ideas of calculus play an important role in the physical sciences and engineering. For this reason, students in these areas may choose to take this course, even though no particular applications are discussed in the course. Students in mathematics, education and other areas may also choose to take this course. However, students who intend to pursue graduate study in mathematics should not take this course. These students should take MAA 4211 instead.

Prerequisites: MAC 2313 (Calculus 3)

Textbook: Witold A. J. Kosmala, A Friendly Introduction to Analysis, 2nd edition, Pearson Prentice Hall, Upper Saddle River, NJ 07458.

Homework: Homework will be assigned for practice on a regular basis but won't be collected. Keeping up with the homework is extremely important in order to be successful in this course.

Exams: There will be four in-class exams each with 100 points. The lowest of the first three exams will be dropped. Tentative dates for the exams are:

Exam 1: 1/26 Wednesday

Exam 2: 2/23 Wednesday

Exam 3: 3/30 Wednesday

Exam 4: 4/20 Wednesday

Grades: Grades are determined by the three exams. Final grades are assigned according to the scale: 93-100 A, 90-92 A-, 87-89 B+, 83-86 B, 80-82 B-, 77-79 C+, 73-76 C, 70-72 C-, 67-69 D+, 63-66 D, 60-62 D-, 0-59 E.

Attendance and make-up policy: Attendance of each class is expected. Make-up exam will be given only under an extraordinary circumstance with a documented excuse. All the make-up exams will be given at 12:30 PM on 4/26/2022 in the same classroom. See UF's attendance policy <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Academic Honesty: Students are expected to know and follow the Code of Student Conduct, which can be found at <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

U Matter We Care: Your wellbeing is important to the UF. 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 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.

Additional Information

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.”

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.” **If students are approved to take exams at DRC, they need to file a request through the DRC website at least four business days before EACH EXAM.**

Online Evaluations: “Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://gatorevals.aa.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 the same website.”

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.