Math 4250/6250 Syllabus

1. Course Information

Dr. Jason Cantarella
Office: Boyd 448
Office phone: 542-2595
jason.cantarella@gmail.com

Course Information

Our classroom: Boyd 322
2-3:15 TR


2. Course Schedule

The course schedule is found on the MATH 4250 Google calendar. [https://calendar.google.com/calendar?cid=ajI2NmVmZzU2MHB1ZjlzZmxjczV0NWc2cjhAZ3JvdXAuV2FsZW5kYW1zZ2x1LmNvbQ](https://calendar.google.com/calendar?cid=ajI2NmVmZzU2MHB1ZjlzZmxjczV0NWc2cjhAZ3JvdXAuV2FsZW5kYW1zZ2x1LmNvbQ)

3. Prerequisites

Students are expected to have a solid foundation in multivariable calculus, equivalent to that offered in the MATH 2270 or MATH 2500 course in order to enroll in the course. Computer skills in Mathematica or similar symbolic computation environment (Sage or Maple) will also be helpful.

4. Course Goals

Students will develop an understanding of the geometry of curves and surfaces, including curvature and torsion for space curves and Gauss and Mean curvature for surfaces. The course will include discussion of the geometry of three dimensional space. At the end of the course, students should be prepared for a graduate course in Riemannian geometry.

5. Disclaimer

The syllabus is a general course plan, but deviations may become necessary over the course of the semester.

6. Principal Course Assignments

The course will have a midterm paper and a final exam. Homework will be due weekly, generally on Fridays.

7. Grading and Policies

The overall course grade is computed from homework, exam, and final grades by the formula. This class has one out-of-class responsibility– a midterm exam on the evening of February 19 from 7-10 pm.

If you are in MATH 4250:
1. 30% for the midterm exam.
2. 30% for the final exam.
3. 40% for the homework assignments.

If you are in MATH 6250:
1. 30% for the midterm exam.
2. 20% for the final paper.
3. 20% for the final exam.
4. 30% for the homework assignments.

After grades are calculated for each student using these weights, the instructor will rank the students by average and determine thresholds for grades of A, B, C, D, and F. Generally, these are somewhat lower than 90 %, 80 %, 70 %, and 60 % of the total points in the course. Though improvement and other circumstances are taken into account in deciding thresholds for letter grades, students with a higher numerical average almost always receive higher letter grades than those with lower numerical averages.

8. Attendance Policy

Students are expected to attend class regularly. Students who miss more than 6 classes (two weeks of class) may be withdrawn from the course by the instructor.
9. ACADEMIC HONESTY

As a University of Georgia student, you have agreed to abide by the University’s academic honesty policy, “A Culture of Honesty,” and the Student Honor Code. All academic work must meet the standards described in A Culture of Honesty found at: [www.uga.edu/honesty](http://www.uga.edu/honesty) Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

It is perfectly acceptable to work on homework problems in groups in this course. However, the help you should get from your fellow students should enable you to complete the problem on your own. Recruiting another student to complete the homework for you, or to simply provide answers to the problems, is a violation of the honesty policy.

10. MAKE-UP EXAMINATIONS

No makeup examinations will be given in the course.