

MAT 303: Calc IV with Applications

Summer II 2020

Stony Brook

Instructor: Jordan Rainone

Email: Jordan.Rainone@stonybrook.edu

Time: MWTh 6pm – 9pm

Place: The Internet

Lectures: Lectures will be given live online using Zoom during the assigned timeslots. Class participation (cam/mic on, writing in the chat, etc...) would be appreciated, but is not required. Lectures will be recorded and posted online (provided zoom/blackboard allows this). In the event that I cannot give a live lecture (do to technical difficulties, illness, time zones, etc...) I will post a recorded lecture and host additional office hours specifically pertaining to that lecture. Lecture notes will also be posted.

Office Hours: There will be 1 office hour per week (on Zoom or a similar platform) where students can “drop in” at any time. When there is a full roster of students and we’re closer to the start date of the course, a survey will be sent out to find office hour times so that (hopefully) each student will be able to attend at least part of it. Additional office hours will be held as needed. Email me if you need additional office hours.

Textbook: The course will roughly follow Edwards & Penney’s *Differential Equations and Boundary Value Problems: Computing and Modeling*, (5th edition). Homework problems may be pulled from this book, but they will be posted online so that students who do not have the book can view the problems.

Technology Requirement: Course material, including homework and announcements, will be accessed on black board or the instructors website (one of the two). Since the course is taught entirely online, students will need a way to use Zoom so they can attend lecture and office hours. In order to submit homework, students will need to either write their homework on their computer (using LaTeX or MathType or equivalent) or write their homework by hand and scan it/take a picture to submit online. Pictures of handwritten homework need to be readable in order to count as submitted.

Lastly, as part of the applications part of this course, we will be using Mathematica (or an equivalent software that Stony Brook students get a license for). Students will need access to a computer which can run this software.

If a student doesnot have access to any of these technologies, they need to email the instructor immediately to discuss alternatives.

Grading: Homework 15% Wiki 15% Midterm 30% Final 40%

Homework: Homework will be assigned on a weekly basis. The problems due on Monday will be from the material that was covered in the past week. Homework needs to be submitted online prior to the start of Monday’s lecture. Late work will be accepted for full credit with a legitimate excuse. Depending on how late, late work may be accepted for partial credit if there is no excuse.

Wiki: As part of this course students will create, edit, and maintain a Wiki of all the material learned. The goal will be to create a classroom resource which (if allowed on the final) could guarantee an A. This

Wiki will either be accessed through blackboard's built in Wiki, or a 3rd party one if it is easier for the students to use. Students will be graded based on participation (number of posts, edits, comments, etc...). Extra credit will be given to students who go above and beyond.

Exams: There will be 1 midterm on July 29th and 1 final exam on August 14th. Both of these exams will be take home exams. This means the exams will not take place during the regularly scheduled lectures. Instead, you will be given access to the exam online and some amount of time to complete and submit it (usually 24 hours, but may vary).

Academic Integrity (general): Cheating and plagiarism are wrong and are forms of academic dishonesty. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Please don't put me in a position where I'm required to report you.

Academic Integrity (wiki): Normally for a Wiki you would need to cite your sources, but it's not necessary for a classroom setting. It may help your fellow students though if you can point to specific lecture notes, webpages, or recorded lecture time stamps. The only real way to plagiarize on the Wiki is by copying and pasting from another source online. This is very easy to catch. Please don't do it.

Academic Integrity (homework): This is a fast-moving course. It is expected that you work together on the homework or use resources online to help you when completing your homework. But passing off the ideas/work you got from other people or sources as your own is *plagiarism* and is always wrong. When you submit homework, always give credit to any other person (whether they are a student in the class or not) who helped you complete it. And if you used a resource such as WolframAlpha, or Matematica, or any other resource which gives you the answer, you must cite it. This is both a good practice and is another tool for me to decide what material to spend more time on. Also, this is the easiest form of cheating/plagiarism to catch.

Academic Integrity (exams): There will not be a webcam on each student or some third party software that prevents opening up a different webpage. This is an upper division course and you're adults. Cheating on an exam is not allowed. Cheating includes talking to other students about the exam, directly looking up answers online, or using any resource that was not explicitly approved for the exam.

For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Americans with Disabilities Act: If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, Room 128, (631)632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. <http://studentaffairs.stonybrook.edu/dss/index.html>

Critical Incident Management: Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.