INSTRUCTOR: Omid Khanmohamadi (okhanmoh@math.fsu.edu)
OFFICE HOURS: Milton Carothers Hall (MCH) 409B; M 2:00–3:00, T 2:00–4:00
CLASS TIMES: 106 Love Building; M 8:00–8:50, T 8:00–9:15, R 8:00–9:15
ELIGIBILITY: You must have the course prerequisites listed below and must never have completed with a grade of C- or better any course for which MAC 2311 is a prerequisite. Students with prior credit in college calculus may be required to reduce credit for MAC 2311 accordingly. It is the student’s responsibility to check and prove eligibility.
PREREQUISITES: You must have passed MAC 1140 (Precalculus) and MAC 1114 (Trigonometry) with a grade of C- or better in each or have appropriate transfer credit. Placement in AMP Group A4 and T3 is also considered to satisfy the prerequisite.
COURSE CONTENT: Chapters 2–6 of the text.
WEBSITES:
• BlackBoard https://campus.fsu.edu
• WebAssign https://www.webassign.net Login to WebAssign using your FSU username suffixed with ::app-32 for the username (e.g., if your FSU username is abc13, your WebAssign username will be abc13:app-32), fsu (lowercase) for the Institution, and then choose “Reset Password”. Your new password will be emailed to your FSU email. If you have had a previous WebAssign account contact Student Support at WebAssign to sync your new account to the old one. Options for purchasing an access code are discussed on the site linked in the TEXT section above.
COURSE OBJECTIVES: “Calculus is the mathematical study of change. Its essence is best captured by its original name, ‘fluxions,’ coined by [one of] its inventor[s], Isaac Newton. The name calls to mind systems that are ever in motion, always unfolding.

... Calculus thrives on continuity. At its core is the assumption that things change smoothly, that everything is only infinitesimally different from what it was a moment before. Like a movie, calculus reimagines reality as a series of snapshots, and then recombines them, instant by instant, frame by frame, the succession of imperceptible changes creating an illusion of seamless flow.”

The purpose of this course is to introduce students to the key concept that formalizes the idea of infinitesimal change, namely the concept of limit, and how it gives rise to the fundamental concepts of derivative (as the rate of change) and integral (as the sum of infinitesimal changes). The usefulness of these concepts is also demonstrated in selected applications.
PREPARATION: Students will be expected to have prepared for each class by working assigned homework and studying material covered in the previous class.
CONDUCT: Respectful behavior toward the instructor and other students is expected. This includes
• Arriving to class on time and waiting until dismissed to pack up and leave.
• Being quiet and giving full attention while the instructor or a student is speaking.
• Turning off all electronic devices that might create a disruption.
GRADING: There will be four unit tests, quizzes and homework, and a cumulative final exam. Each of the four unit tests are worth 15% of the course grade, the combined quiz and homework grade is worth 15% of the course grade, and the final exam is worth 25%. Letter grades will be determined from numerical grades as follows: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 0-59. Plus or minus grades may be assigned in a manner consistent with standard University practice. A grade of I will not be given to avoid a grade of F or to give additional study time. Failure to process a course drop will result in a course grade of F.
MAKEUP POLICY: Late homework or quizzes will not be accepted. No makeup tests or quizzes will be given. A missed test or quiz may be excused if the student presents sufficient verifiable evidence of acceptable extenuating circumstances. If a test absence is excused, then the final exam will be used for the missing test grade. An unexcused absence from a unit test will be penalized. An unexcused absence from a quiz will result in a grade of zero for that quiz. Absences from tests and quizzes due to family social events will not be excused. Acceptable

1 Steven Strogatz, *The Calculus of Friendship*–pp. xii, 1.
medical excuses must state explicitly that the student should be excused from class. Students must take the final examination at the scheduled time. Students must bring photo ID cards to all tests.

**UNIVERSITY ATTENDANCE POLICY:** Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

**QUIZZES and HOMEWORK:** Quizzes and homework may be given in lecture, and as work to be done outside of class and online. The combined quiz and homework grade is determined by adding the total number of points earned and dividing by the total possible.

**PRACTICE:** Student will need to work many practice exercises to become proficient in the material. Practice problems are recommended but not checked. It is the student’s responsibility to work enough practice problems to master the material.

**EXAM DATES:**
- TEST #1: Thursday, January 30
- TEST #2: Thursday, February 20
- TEST #3: Thursday, March 20
- TEST #4: Thursday, April 10
- FINAL EXAM: Friday, May 2, 10:00–12:00 noon

**TUTORING FOR MATH:** Tutoring is available for this course via ACE Tutoring at the Learning Studio in the William Johnston Building. Appointments may be made, and drop-ins are welcome for one-on-one and group tutoring. Please contact the ACE Learning Studio at tutor@fsu.edu, 850-645-9151, or find more information at [http://ace.fsu.edu/tutoring](http://ace.fsu.edu/tutoring).

**HONOR CODE:** The Florida State University Academic Honor Policy outlines the University’s expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “…be honest and truthful and …[to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy, found at [http://academichonor.fsu.edu/policy/policy.html](http://academichonor.fsu.edu/policy/policy.html)).

**AMERICANS WITH DISABILITIES ACT:** Students with disabilities needing academic accommodation should: (1) register with and provide documentation to the Student Disability Resource Center; and (2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact:

Student Disability Resource Center
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu
[http://www.disabilitycenter.fsu.edu](http://www.disabilitycenter.fsu.edu)

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.