

MAC 2312 – Section 07 – Calculus II (Honors)

Fall 2016 – Course Syllabus

LECTURE MEETS: LOV 107, Mon 10:10am–11:00am and Tue, Thu 9:30am–10:45am

INSTRUCTOR: Dr. Monica K. Hurdal, Department of Mathematics, FSU

OFFICE: LOV 113

EMAIL: mhurdal@math.fsu.edu

WEBPAGE: <http://www.math.fsu.edu/~mhurdal>

PHONE: 644-7183 (office) or 644-2202 (dept. front desk)

OFFICE HOURS: Mon, Wed 11:00am–12:00pm, Tues 10:45am–12:00pm, or by appointment. Please refer to the course webpage for updated office hour information.

ELIGIBILITY: You must have the course prerequisites listed below and must never have completed with a grade of C- or better a course for which MAC 2312 is a (stated or implied) prerequisite. Students with more than four hours of prior credit in college calculus are required to reduce the credit for MAC 2312 accordingly. It is the student's responsibility to check and prove eligibility.

PREREQUISITES: You must have passed MAC 2311 (Calculus I) with a grade of C- or better or have satisfactorily completed at least four hours of equivalent calculus courses.

ALEKS PLACEMENT EXAM REQUIREMENT: If this is your first FSU math course with the prefix MAC and you are a FTIC (First Time In College) student who entered Summer 15 or later, then you are required to take the ALEKS Placement Exam.

TEXT: Calculus (Early Transcendentals) (Seventh Edition), by James Stewart. This course will have a WebAssign (online) component.

COURSE CONTENT: Chapters 7–11 of the text.

COURSE DESCRIPTION: This course covers techniques of integration, some applications of integration, some topics in differential equations, some topics in analytic geometry, and the elementary theory of sequences and series. The material in this course should be mastered before the student proceeds to courses for which it is a prerequisite.

COURSE OBJECTIVES: The purpose of this course is to introduce students to more advanced topics in calculus and some of their applications. The material in this course should be mastered before the student proceeds to courses for which it is a prerequisite. The purpose of this course is:

- to teach students advanced techniques and concepts in calculus,
- to demonstrate the usefulness of calculus in selected applications.

In addition to these course content objectives, my objectives for students are:

- to provide expose to interpreting and evaluating data and information,
- to solve problems using appropriate technology and mathematical methods,
- to have students become aware of where mathematics is used around them and how mathematics can be useful,
- to encourage students to have practice writing mathematically. It is not only important to be able to do mathematics, but you also need to be able to convey your results to others.

CALCULATORS: A programmable graphing calculator is optional. However, you are likely to be at a disadvantage if you do not have one. Use of graphing or scientific calculators and computers for homework is encouraged. Calculators will be allowed on some, but not all, tests and quizzes.

COURTESY AND ATTENDANCE: I expect you to get to class on time and not to leave class until I have dismissed it. If you must leave class early, please let me know before class begins, and try to sit in a place where you will not disrupt your classmates when you leave. Refrain from using cell phones, computers, or other electronic devices during class lectures as this is distracting to your classmates. I expect you to attend class regularly. Studies show that students who attend class get higher grades than those who skip classes. A student absent from class bears the full responsibility for all subject matter and procedural information discussed in class.

GRADING: There will be three unit tests and a final exam. There will also be short quizzes, graded homework and other assignments. Numerical course grades will be determined according to the formula $45\%U + 20\%QH + 35\%F$ where U = unit test average, QH = quiz and graded homework average, and F = final exam. 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. 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.

EXAM POLICY: No makeup tests or quizzes will normally be given. If a test absence is excused, then the final exam score may, at the instructor's discretion, be substituted for the missing test grade. If a quiz or homework assignment is excused, then the missing grade will not be included when calculating the final grade. An unexcused absence from a unit test will be penalized. An unexcused absence from a quiz or homework will result in a grade of zero. Students must bring FSU ID cards to all tests.

TEST DATES: Tentative test dates are:

Test 1: Tuesday, September 20

Test 2: Tuesday, October 18

Test 3: Tuesday, November 15

Final Exam: Wednesday, December 14, 12:30pm–2:30pm, in our usual classroom, as dictated by the FSU Examination Schedule.

PRACTICE HOMEWORK: Practice homework problems will be assigned in class from the text book and online and will be listed on the course web page. Students are expected to have done (at a minimum) the assigned homework as we will spend time in class discussing some of the homework. Students will also be asked to present solutions on the board. Students are encouraged to work problems not specifically assigned. Practice homework will not be collected nor graded.

QUIZZES and GRADED HOMEWORK: There will be quizzes, based on the practice homework, which will be completed either in class or online. There will be other graded homework assignments with specified due dates which will form part of your quiz grade. Your worst quiz/homework grade will be dropped from your quiz average. A missed quiz/homework will act as your worst quiz. Practice homework presented in class will also form part of your quiz grade.

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.

FREE MATH TUTORING FROM FSU: On-campus tutoring and writing assistance is available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services comprehensive list of on-campus tutoring options - see <http://ace.fsu.edu/tutoring> or contact tutor@fsu.edu. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

ACADEMIC HONOR POLICY: 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://fda.fsu.edu/Academics/Academic-Honor-Policy>.)

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.

Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from the Student Disability Resource Center has been provided.

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 the 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/>

SYLLABUS CHANGE POLICY: 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.