MAT 137 (Calculus II) Syllabus for Fall 2006
Section 4 (Class Number 3627)
MTWF 1:50-2:40 in Adel Math Building (AMB) 223
Updated October 17

Instructor Information

Instructor: Jim.Swift@NAU.edu AMB 110 523-6878 www.nau.edu/Jim.Swift

Office Hours: MWF 11:25 - 12:00 and MTWF 2:55 - 3:30. If also hope to use the Vista Common Room to have “virtual office hours” from 10:00 to 10:30 on nights before a WeBWorK assignment is due. If these times are inconvenient, you can make an appointment, or drop by my office.

Websites: Go to my home page (www.nau.edu/Jim.Swift) and follow the “Teaching” link. That link takes you to the instructor information page, where there is a link to the web site for this class, as well as a link to official U.S. time, http://www.time.gov, that our class will observe.

Course Description


Prerequisite: A grade of C or better in MAT 136 (or transfer credit), a 3 or better on the AP Calculus AB exam, a 3 on the AP Calculus BC exam, or at least 50 on the CLEP Calculus exam. (A score of 4 or 5 on the AP Calculus BC exam places you into MAT 238.). You are responsible for making sure that you have met this prerequisite.

Content: Second semester calculus, including a review of integration, applications of integration, differential equations, infinite sequences and series, vectors and the geometry of space. We will cover §5.6 through §9.5, skipping a few sections. The class website has a tentative schedule showing what sections we cover.

Commitment: This course is difficult and it moves quickly. You should be committed to working an average of at least two hours a day, six days a week, outside of class. Regular homework and regular attendance is expected.

Basis of Evaluation

Points: There will be approximately 800 “class points” possible. All class points are assigned with the scale A (90%), B (80%), C (70%), and D (60%).

Midterms: (3 × 100 = 300 class points) There will be 3 midterm exams. Each exam will have a raw score and a “curved” or scaled score based on 100 possible class points. In fairness to those with classes before or after ours, the exam will start and end on time. There will be an exam the Wednesday before Thanksgiving. You may take an early version of this exam on the previous Tuesday.
Homework: (10 × 24 = 240 class points) We will be using WeBWorK for most of the homework assignments. Each of WeBWorK assignments is worth 10 class points. I may occasionally have quizzes or short assignments for you to turn in on paper. The point value of the paper assignments will be announced when they are assigned.

Technology Projects/Group Work: These are worth 10 class points each, and will usually involve technology: either graphing calculators or our computer lab. Some assignments will be done in class and turned in at the end of class; others are to be finished outside of class.

Final Exam: (250 class points) The Final Exam will be comprehensive. The final exam is scheduled for Wednesday, December 13 from 12:30 to 2:30. I reserve the right to raise your course grade from the 90/80/70 curve, based on an exceptional final exam.

Extra Credit: At each midterm exam I will give you 3 points if you had no unexcused absences since the previous exam. Any points that you get for the math department’s “Problem of the Week” will be credited to this class. Furthermore, any of the even problems in the “Focus on Problem Solving” problems from chapters 5 through 9 in our textbook can be done for extra credit. I will give 2 class points per problem for a correct and well-presented solution.

Course Policies

Calculators: Calculators will not be allowed at the first midterm exam. Any calculator will be allowed on the other three midterm exams. The final exam will have a component where no calculators are allowed, but calculators will be allowed for the majority of the exam. Please bring your calculator to class.

Delayed WebWorK: I can delay your personal due-date for a WeBWorK assignment. For each student, I will delay up to three assignments by 24 hours provided the request comes in time for me to delay the due date before the answers become available.

Missed Class Days: I will allow excused absences, for extra credit purposes, for institutional excuses, illness, or other reasons that I approve. However, you must notify me of an absence by e-mail before class. Furthermore, if you are late and I take roll before you arrive, then you will be counted absent.

University and Departmental Policies: A separate sheet of University and Departmental Policies is on the back of page 1.

Amendments: Any changes to this syllabus will be announced in class, and an updated version will be posted on my website.