MAT 137 (Calculus II) Syllabus for Spring 2006
Section 2 (Class Number 3389) at 10:20
Section 3 (Class Number 3390) at 11:30
Both classes are in AMB 223

Instructor Information

Instructor: Jim Swift Adel Math Bldg. 110 523-6878 Jim.Swift@NAU.edu

Office Hours: I will stay in the classroom in the break between classes (11:10 to 11:30) for part of my “office hours.” My regular office hours are Monday 3:00 - 5:00 and TTh 2:00 - 3:00. If these times are inconvenient, you can make an appointment, or drop by my office any time.

Websites: Go to http://oak.ucc.nau.edu/jws8 (google “Jim Swift”) and follow the “Teaching” link. On the instructor information page, 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 are 1000 class points possible (plus extra credit). Letter grades are assigned with the scale A (90%), B (80%), C (70%), and D (60%).

Midterms: (4 × 100 = 400 points) There will be 4 midterm exams. All of the midterms count. The schedule at my website gives tentative exam days.

Homework: (260 points). We will be using WeBWorK for the homework assignments. Each of the assignments has equal weight. The total number of WeBWorK assignments is not yet determined, so I’m not sure how many class points each assignment will be worth.
Technology Projects/Group Work: (8 × 5 = 40 points) We will have 8 projects. They are each worth 5 class points. These 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: (300 points) The Final Exam will be comprehensive. For the 10:20 class, the final exam is scheduled for Monday, May 8 from 10:00 to 12:00. For the 11:30 class, the final exam is scheduled for Wednesday, May 10 from 10:00 to 12:00. 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 in the book 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 be 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 short Part 1, where no calculators are allowed, but calculators will be allowed for the majority of the exam. Please bring your calculator to class.

Late Assignments: Late assignments will be accepted if two conditions are met: (1) you must let me know before it is due, and (2) I must give permission. Contact me by e-mail, phone, or in person with your request. Label late assignments clearly and give them directly to me: do not put them in the stack of homework.

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 by e-mail before class that you will be absent. 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.