MAT 275: Modern Differential Equations-Spring 2011

Instructor: Yang Kuang  Office: PSA 429  Email: kuang@asu.edu

Class Webpage:  http://math.asu.edu/~7Ekuang/class/275.html

Class SLN: 10997, Days and Times: Tu, Th 12:00pm-1:15pm, Room: LL275

Course Description: Introduces differential equations, theoretical and practical solution techniques. Applications. Problem solving using MATLAB. Credit is allowed for only MAT 275 or 274 toward a mathematics degree.

Text: DIFFERENTIAL EQUATIONS computing & Modeling, by EDWARDS & PENNEY.

Graphing calculator: A graphing calculator is NOT required for this course. Any calculator that has a computer algebra system (CAS) will not be allowed on exams and quizzes. If a student is found using one of such models on an exam or a quiz, the student will receive a zero for that exam or quiz.

Homework and quizzes: Weekly homework and bi-weekly labs will be assigned. There will be at least 9 pop-up quizzes.

Midterm exams: Each will involve a mix of mechanical skills and conceptual reasoning. The best preparation is regular attendance and completion of assigned homework. Makeup exams are given at the discretion of the instructor and only in the case of a documented emergency that prevents a student from taking the exam.

Tentative exam dates: Exam 1 will be held around Feb. 22. Exam 2 will be held around March 29.

Evaluation: Two midterm exams: 40% (20% each); homework: 15%; quizzes: 18%; final exam: 27%.

Grades: A [90,100], B [80, 90), C [70, 80), D [60, 70), E: below 60. Plus and minus grades follow the usual ASU protocol.

Final exam: The cumulative final exam will be given in the regularly assigned classroom according to the ASU final exam schedule. According to ASU policy, final exams can be rescheduled only under the following circumstances: (1) religious observance, (2) two finals scheduled at the same time, or (3) more than three exams scheduled on the same day. Final Exam: Thursday, May 5, 9:50am-11:40 am.

Note: The instructor has the right to change this syllabus as he sees fit. Any changes will be announced in class. It’s the student’s responsibility to attend class and thus be aware of these changes.

Cell Phones and Electronic Devices: Picture taking, talking or texting on your cell phone/devices during class is prohibited. If caught, you may lose 2% of your course grade for each occurrence.

Departmental & University Policies and Procedures

Departmental drop back: Based on advising from the course instructor, a student may elect to drop back to a lower level math course before the drop back deadline. Students should go to the Undergraduate Mathematics Office in PSA 211 to initiate a drop back request.

Instructor-initiated drop: At the instructor's discretion, any student who has not attended class during the first week of classes may be administratively dropped from the course.

Incomplete: Incomplete will be awarded only when a documented emergency prevents a student who is currently passing with a C or better from completing a small portion (<10%) of the course requirements.