Course Information:
- Time/Place: MW 10:50am -12:05pm - Room: EN 107
- Dates: 1/21 - 5/18, no classes 3/23, 3/25 (Spring Break)
- Office Hours: Mon 12:15-1:00pm, Wed 10:00-10:45am, Fri 12:15-1:00pm or by appt, Office: EN 271

Course description: The lectures will cover the following topics: first-order and second-order differential equations and applications, the Laplace transform, linear systems of differential equations and their phase plane, nonlinear first-order differential equations and nonlinear systems in the plane. Numerical methods for solving differential equations will also be introduced. The course has an E-companion website for access to grades throughout the semester, links to handouts and other important announcements.

Homework: Weekly sets of homework problems from the textbook will be assigned, with due date on Wednesdays, unless otherwise specified. No late homework will be accepted or graded. Homework will be usually returned during the next class meeting and grades will be posted online. Each set will be worth 10 points and the lowest 2 HMW grades will be dropped.

Exams: There will be 2 midterm Exams during the semester and a comprehensive Final Exam, scheduled as follows

Exam 1: Wed, March 4
Exam 2: Wed, April 15
Final Exam: Mon, May 18 (10:50am-1:20pm)

There will be no make up exams so please mark your calendars! If a student informs me well before the exam date about absolutely having to miss an upcoming exam AND provides acceptable written verification in support of the request, then the final exam score will be used to replace that particular exam. If any of the above conditions is not satisfied, the student will get a zero on the missed exam. The above procedure may only be applied once. The Final Exam cannot be missed under any circumstances.

Computational Tools: During the lectures, the instructor will introduce some of the computational tools that are relevant for differential equations applications, in particular MATLAB. No prior experience with MATLAB is required. MATLAB is installed on the computers in EN 136 and EN 233. Remote access to MATLAB is available for all current UCCS students. See instructions on the resources page.

Grading: The course grade will be based on the cumulative score from homework (100 pts), the two exams (100 pts each) and the final (200 pts). 60% of the maximum total score of 500 guarantees a passing score in the class.

Other policies: To make the most of your class, you are required to attend every class session. Students should notify (in advance) the instructor if they need to miss more than one session (with the exception of MathOnline students). Supporting documentation may be required. For other course policies, such as the use of scientific calculators, consult the "Departmental Policies" link on the Math department web site [http://www.uccs.edu/math/policies.html](http://www.uccs.edu/math/policies.html). Drop dates: Please seek counseling from the Dean's office before dropping any course and note the following important dates: Feb 4 – last day to drop and receive a full tuition refund; Apr 3 – last day to drop without special permission from the Dean.

Math Learning Center (MLC) and Supplemental Instruction (SI): Free tutoring service is available at the Math Learning Center (MLC) located in EN 136. It is recommended that you use this facility for questions regarding homework, computer algebra systems, review for exams or any other course material that you are having difficulty with. Please visit the MLC website for more information. An additional valuable resource dedicated to the Math 340 students is the Supplemental Instruction Program. Your SI leader and the schedule will be posted online shortly.

Academic Dishonesty: Academic honesty is fundamental to the activities and principles of a university. All members of the academic community must be confident that each person's work has been responsibly and honorably acquired, developed, and presented. Any effort to gain an advantage not given to all students is dishonest whether or not the effort is successful. The
academic community regards academic dishonesty as an extremely serious matter, with serious consequences that range from probation to expulsion. When in doubt about plagiarism, paraphrasing, quoting, or collaboration, consult the course instructor.

**Disability Services**: Students with disabilities should contact the Office of Disability Services (Main Hall 105, 262-3354) and also notify the instructor of any special needs. They must provide a letter of certification from the Office of Disability Services within the first 2 weeks of classes.