

**Lecture 010**, MWF 8:00–8:50 AM, ECCR 150

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Office Hours: MWF 9:30–10:30 AM

**Lecture 030**, MWF 2:00–2:50 PM, ECCR 265

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Office Hours: MWF 3:00–4:00 PM

**Lecture 020**, MWF 10:00–10:50 AM, ECCR 265

Per-Gunnar Martinsson, ECOT 233, (303) 492 2646

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Office Hours: M 11:00–12:00 AM, W 9:00–10:00 AM

**Course Goals:** To learn the concepts and techniques of ordinary differential equations and linear algebra. Topics include qualitative methods, linear and nonlinear ODEs, and first and second order systems.

**Text:** *Differential Equations and Linear Algebra*, by Farlow, Hall, McDill & West (2nd edition).

**Recitations:** Recitations meet for 1 hour on Thursdays. The purpose of the recitation is partly to help you with the homework and labs. More importantly, the recitation is intended to further clarify Differential Equations concepts.

**Homework:** To do well in this course, attend the lectures and do (and understand) the homework. Ask questions. Homework will be collected **in recitation** except for midterm exam weeks where they are due at the **end** of Mondays lecture. Late homework will **not** be accepted or graded; you must show all your work in your homework. Homework problems and due dates are available on the course webpage (under the “schedule” tab). The problems listed are those that are to be turned in for credit; however, it is your responsibility to do as many problems as is necessary to understand the material and know how to do the graded problems.

**Exams:** There will be three unit exams and a comprehensive final. The unit exams will be given on Wednesdays (Feb. 13, Mar. 12, and Apr. 16) from 7:00–8:30 PM, with no exceptions. The final exam is Saturday, May 3, from 7:30–10:00 PM. There will be **no** make-up exams or early exams. If you are sick during a unit exam, please bring a note from your doctor verifying your illness. Your course grade will then be determined by the rest of your course work. No notes, or electronic devices are allowed in the exams. A one-page (double sided) crib sheet is allowed in the exam. If you have any unavoidable schedule conflicts with the exams, including three or more final exams on the same day, you must bring this to the attention of your professor as soon as possible.

**Disability Services:** A special needs room for people with documented disabilities will be provided for each exam. If you qualify for accommodations because of a disability, please submit to your instructor a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: (303) 492 8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.

**Projects:** You will turn in three projects for this course. Projects and due dates will be posted on the course web site. You may work in groups of 3 people or fewer and you can work with students in any section of this course. If you work in a group, only one paper copy and one electronic copy needs to be submitted for the whole group. All group members will receive the same grade; the instructors will not arbitrate on internal group disputes. Late projects will **not** be accepted or graded. All reports must also be submitted electronically to the AMESS system (which will be linked from the course homepage). In the projects, you will investigate certain topics in differential equations in more detail, perform some of your analysis in a computer software package (Mathematica, Matlab, or MVT), and turn in a write-up of your results. APPM 2460 is a one-credit course specifically designed to help you with the projects and use of mathematical software. While not required, you are encouraged to sign up for APPM 2460.

**Dropping the course:** Advice from the Dean’s office is recommended before dropping any course. After Feb. 27 dropping the course is possible only with a petition approved by the Dean’s office.

**Extra help:** You are encouraged to get extra help whenever you need it. Instructors and TAs each have office hours, which are posted on the course webpage. You may go to any instructor's or TA's posted office hours, even if they are not your regular instructor or TA. Also, the CU Residence Halls run regular Math Labs and tutoring is available through the dorms or the Engineering Peer Advocates. In addition, review sessions will take place in class just before each exam.

**Course web page:** (<http://amath.colorado.edu/courses/2360>) You will find useful information on the course web page, such as homework assignments and solutions, practice exams with solutions, and where to go if you are having trouble with course material (such as office hours and tutoring options).

**Bluebooks:** Each student is required to purchase **four**  $8.5 \times 11$  bluebooks and give them to the TA by the second recitation (Jan. 24). You will be penalized 5 homework points for failing to turn in your blue books on time. The books will be distributed at the exams, so please do not write **anything** (not even your name) on the books.

**Academic Honesty:** Students are encouraged to work in groups, however, **all work turned in must be your own**. Violation of the CU Student Honor Code <http://www.colorado.edu/academics/honorcode> or the College of Engineering's Academic Honesty Advising Guidelines [http://www.colorado.edu/engineering/ar\\_ugradadvising.html](http://www.colorado.edu/engineering/ar_ugradadvising.html) will result in an overall grade of F in this course and further sanctions from the university.

**Religious Holidays:** Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Inform your instructor within two weeks from the beginning of the semester if you have such conflicts.  
See full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html).

**Classroom Behavior:** Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. The instructors will gladly honor your request to address you by an alternate name or gender pronoun. Please advise them of this preference early in the semester so that they may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code).

**Grade determination:** There are a total of 800 points for the course. The points are distributed over homework assignments (150 points), projects (150 points), three unit exams (100 points each), and a cumulative final exam (200 points).

A grade of C- or better is required in this course for Engineering majors (C for Aerospace). **In order to attain a grade of C- or better in the course, you must achieve a grade of at least C- in the exams (overall), regardless of your homework and project grades.**