

**Instructor information:**

Fred Torcaso, Whitehead Hall 211-B, [fred.torcaso@jhu.edu](mailto:fred.torcaso@jhu.edu)

Availability: by appointment (e-mail please), see course web site for scheduled hours.

[www.ams.jhu.edu/~torcaso/lade.html](http://www.ams.jhu.edu/~torcaso/lade.html)

**Course information:**

Lectures: Mondays, Wednesdays, Fridays 9:00-9:50 in Shaffer 301;

Section 1: Tuesdays 1:30-2:20 in Bloomberg 168

Section 2: Tuesdays 3:00-3:50 in Shaffer 302

**Textbook:**

Edwards and Penney, *Differential Equations and Linear Algebra*, 2nd Edition.

**Flow of Course:** (from the textbook and roughly in this order\*)

Chp 1,2,3: 1st-order ODEs, some applications, Linear systems of Algebraic equations

Chp 4,5,6,7: Vector spaces, 2nd-order ODEs, Eigenvalues and decomp. of matrices, 1st-order systems

Chp 8,10: Matrix exponentials, Laplace transforms

\* Some topics may be excluded or treated briefly, while additional topics may be included.

**Grade structure:**

There will be approximately weekly homework assignments, two midterm exams, final exam. The grading structure is as follows:

Homework (15%); Two Midterms (15% worst, 30% best); comprehensive final exam (40%)

No senior option.

**Course web site:** posted above. I may use the course web site to communicate to you all outside of the classroom as needed. For example, I will post homework problems, corrections, announce midterms, and possibly other announcements on this web site. So, please visit this web site often for information.

**Important Dates:**

September 7: Labor Day, classes suspended

October 9: Midterm #1

November 23: Midterm #2

November 25-29: Thanksgiving break

December 15: Final Exam, 9:00am-12:00pm

**Exams:**

Technically, midterm exams will not be cumulative. However, the material in later chapters builds upon that in previous chapters. The Final exam will be cumulative. **No make-up exams** will be given under *any* circumstances, so do not miss an exam time. **Your lowest midterm score will be 15% of your grade, while the better midterm will represent 30% of your course grade.**

**Disabilities:**

If you have a documented disability that requires you to have more time for exams, see me immediately. Furthermore, it is your responsibility to make sure that (1) I receive documentation from the Office of Disability Services as soon as possible, and (2) you arrange to have a room assignment (usually in 3rd floor of Garland Hall) for the exams - I can supply more detail on the procedure in person.

**Extra credit:**

There will be no opportunities for extra credit in this course, so do not ask.

**Homework:**

Homework will be posted daily during lectures. The accumulated homework posted during lectures in a given week will then be posted on the course web site with a time due. Typically, the homework will be due in discussion section to your TA the Thursday *of the following week*. For guidelines on homework submission speak to your teaching assistant. Do not hand in homework to the instructor. Late homework will not be accepted not matter what the excuse. **Your lowest homework grade will be dropped.**

**Attendance:**

Your presence is strongly urged. I will generally require students to only understand (and be responsible for) what I present on the board or what I make explicit mention of in lecture. There may be material in each section that cannot be covered due to time constraints. When a class is missed it is the student's responsibility to learn what was covered in class and make appropriate accommodations.

**Academic integrity:**

See JHU undergraduate manual on code of ethics. Any submission for grade in this course must represent *your own* work. Blatant copying of any amount or form will not be tolerated.