

# MAT 22B - Differential Equations

## Summer Session 2 2015

### Syllabus/Course Info

August 3, 2015

**Instructor:** Jordan Snyder

- **Office:** MSB 2204
- **Email:** jasnyder@math.ucdavis.edu
- **Office Hours:**
  - Mondays 10:00am - 11:30am, and 2:00pm - 3:00pm
  - Wednesdays 10:00am - 11:30am
  - Other times by appointment
- **Class:** MWF 12:10 - 1:50 pm, Chemistry 176

**Course Objectives:**

- To understand what differential equations are and how they represent natural phenomena
- To be able to solve certain linear and nonlinear differential equations
- To interpret the solution of a differential equation

**Prerequisites:**

- Students should have successfully completed calculus to the level of 21C and linear algebra to the level of 22A or 67, or equivalent.

**Text:**

- W. E. Boyce and R.C. DiPrima, Elementary Differential Equations and Boundary Value Problems, 10th ed., 2012, Wiley.
  - Retail price is \$160. Try to find a used copy!

**Topics:**

- See departmental syllabus here. This is to be taken as a general outline, and is subject to change.

#### **Assesment:**

- Weekly quizzes (60%)
  - Quizzes will be held every Friday at the end of class. They are meant to make sure you are keeping current with the material. If you actively engage with the homework, the quizzes should not be a big deal
  - Five quizzes will be given, and your lowest score will be dropped. Quiz dates are August 7, August 14, August 21, August 28, and September 4
- Final exam (30%)
  - The final exam will be held in class on the last day, **Friday, September 11, 2015, at 12:10pm in Chem 176.**
  - You are required to attend the final exam or you will not pass the class. There will be no makeup exam.
- Weekly Homework (10%)
- Calculators will NOT be allowed during the quizzes or final exam. The questions will be designed to be difficult for reasons other than computation.

#### **Homework:**

- Homework problems will be announced at the beginning of each week, and collected each Friday.
- The grading will be for completion, according to the following rubric:
  - 0 points: not handed in, or handed in with zero effort
  - 1 point: handed in but with minimal effort
  - 2 points: handed in with most problems attempted, at least some correctly completed
- The point is to make sure you're thinking about the material outside of class time.

#### **Academic Integrity:**

- As UC Davis students, you are expected to uphold the UCD Code of Academic Conduct.
  - TL;DR - help each other learn, and don't cheat.
- If you cheat, you will receive a zero on the assignment at hand. If you cheat again, you will fail the course.