

# 18.03: Differential Equations

Spring, 2009

**Lecturer:** Prof. David Jerison (2-247, 253-7569, [jerison@math.mit.edu](mailto:jerison@math.mit.edu))

**Course Administrator:** Pokman Cheung (2-376, 253-5013, [pokman@math.mit.edu](mailto:pokman@math.mit.edu))

**Webpage:** <http://math.mit.edu/18.03/> (course materials, office hours, links to the Stellar webpage – where grades are posted – and numerical applets, etc.)

**Texts:** (1) *Elementary Differential Equations with Boundary Value Problems*, Edwards and Penney, Fifth or Sixth Edition; (2) *18.03: Differential Equations Notes and Exercises* (available at Copy Tech, Basement, Bldg. 11)

**Lectures:** Mon, Wed, Fri at 1:00 and 2:00 in 10-250.

**Recitations:** Tue and Thu. To change your recitation, go to the Stellar webpage.

**Grading:** Problem sets are worth about 48 points per week of lectures and recitations. The total is roughly 550 points which will be multiplied by 1/2 and added to points on the hour exams ( $3 \times 100 = 300$ ) and the final exam (360) to make up the cumulative total. The total score is the main factor in your grade; but in addition, to pass the course, you must make a reasonable effort on at least 7 of the problem sets and pass the final.

**Homework:** There are 10 problem sets in total. All of them are due on Fridays at 12:55pm in 2-106. Problem Set 1 is already posted and was handed out in the first recitation on Feb 3. The rest will be handed out in lecture on the Friday before they are due. Solutions will be posted on Friday afternoons.

**Late homework:** Recitation instructors may grant an extension for one problem set per term with no penalty. When you make up this problem set, you may not look at the posted solutions or talk to students who have seen the solutions.

**Collaboration:** Collaboration on homework is encouraged, but you should think through the problems yourself or else you will have trouble on the exams. You must write up your problem set in your own words. You may talk to people and use materials not explicitly recommended on our web site, but only with attribution. You will be asked to identify your sources on each problem set. Failure to attribute your sources may constitute plagiarism.

**Tutoring:** Mon through Thu at 3:00–5:00 and 7:30–9:30 in 2-102.

**Exams:** Hour exams will be given during class period on Feb 25, Mar 18 and Apr 24, and a comprehensive three-hour exam during the Final Exam Week.