

Math 307H (Winter Quarter, 2010)**Hart Smith**

Instructor Hart Smith, Padelford C-441, email: hart@math.washington.edu
 Phone: 685-2902. Webpage: <http://www.math.washington.edu/~hart>

Office Hours: 2:40–4:00 pm Monday and Wednesday (or contact me after lecture to arrange some other time).

Prerequisite Math 125 required; Math 126 recommended.

Text “*Differential Equations and Boundary Value Problems*” by Boyce and DiPrima, 9th edition. 8th edition is also fine, but check the assignment sheet about homework problems.

Grading Your grade for the course will be based on 2 midterms, 1 final exam, and weekly homework. The relative weights are as follows:

Test	Number of points
Midterm 1	30
Midterm 2	30
Final Exam	50
Homework	15
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Total Points	125

Exams and quizzes are closed book, but you can bring a one-sided page of notes ($8.5'' \times 11''$) to the midterms and final. You are welcome to bring a scientific (but not a graphing) calculator to all exams.

If you have an unavoidable conflict with an exam, let me know in advance. To be fair to all, an exam cannot be taken late. If you miss a midterm due to serious illness, your score for that midterm will be replaced by the weighted average of your other midterm and final. It’s important to contact me **before** the exam to avoid confusion over what’s an allowable excuse. If you simply skip a midterm, or do poorly on one, then your score will be replaced by 70% of the weighted average of your other midterm and final.

Syllabus The following is a rough schedule for the course.

Monday, Jan. 4 – Wednesday, Jan. 20

First Order Differential Equations: Boyce-DiPrima §2.1–2.3, 2.5

Friday, January 22 – First Midterm

Monday, Jan. 25 – Monday, Feb. 22

Second Order Linear Equations: Boyce-DiPrima §3.1, 3.3–3.5, 3.7–3.8

Wednesday, February 24 – Second Midterm

Friday, Feb. 26 – Friday, Mar. 12

The Laplace transform: Boyce-DiPrima §6.1–6.4

Monday, March 15, 2:30–4:20 pm – Final Exam