

MATH 334: Introduction to Differential Equations

Fall 2010

Textbook: *Elementary Differential Equations and Boundary Value Problems*, 9th edition, by Boyce and DiPrima.

Syllabus: Chapters 1 - 7, some of chapter 9 if time allows.

<u>Final Grades:</u>	Scheme 1	Scheme 2
Assignments	10%	10%
Midterm Examination 1	15%	0%
Midterm Examination 2	15%	0%
Final Examination	60%	90%

- The scheme resulting in higher grade will be used.
- A total raw grade of 50% or more will guarantee a pass (D or better).
- A total raw grade of 100% or more will guarantee a A+.
- Grades are assigned based on the performance of all students in all sections using historical averages as a guideline.

Assignments: There will be 4-5 assignments (all will be counted). Hand in written solutions in the appropriate assignment box on the third floor in CAB. For the due dates see the attached schedule. Assignments are due before 5PM on the due date. Late assignments cannot be accepted since the solutions to the assignments will be posted on the course web site shortly after the assignments are due. Note that only selected problems will be graded. Collaboration is encouraged, but no collaboration when writing down your answers.

Midterm Exam: Midterm 1: 12pm Monday (in class) 18 October 2010 (temporary).
Midterm 2: 12pm Monday (in class) 15 November 2010 (temporary)
There is no deferred midterm exam.

Final Exam: 2PM Wednesday, 15 December 2010.

Deferred Exam: 9AM Saturday, 15 January 2011 (requires approval of your Faculty Office).

Exams: Your student photo I.D. is required at exams to verify your identity. Students will not be allowed to begin an examination after it has been in progress for 30 minutes. Students must remain in the exam room until at least 30 minutes has elapsed. Electronic equipment cannot be brought into examination rooms.

Re-examination: In addition to the requirements set out in Section 23.5.5 of the Academic Calendar, students wishing to be considered for a re-examination must have, excluding the final, completed at least one half of the term work. Term performance will be considered in the decision to grant reexamination.

Web Site: On <http://www.math.ualberta.ca/~xinweiyu/334.1.10f/index.html>, you can find

- ✓ Course calendar; Check it often for announcements, etc.
- ✓ Lecture notes and other supplemental materials.
- ✓ Links to online resources: online video lectures, Wolfram Alpha, etc.
- ✓ A link to "Required Problems" (See "More on Exams" below).
- ✓ A link to "Comments" page.

Absences:

If you cannot submit an assignment for a valid reason, please inform your course instructor **before** the due time. Documentation is not required for incidental absences, but instructors reserve the right to require a Statutory Declaration if you are often absent. Doctors' notes are not required. You must complete a Statutory Declaration if you are absent from a midterm or final exam. Statutory Declarations can be completed at the Faculty of Science Office in the Biological Sciences Bldg.

Student Behavior:

The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behavior, which can be found online at <http://www.ualberta.ca/secretariat/appeals.htm>, and avoid any behavior, which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

SSDS:

Students who require accommodations in this course due to a disability affecting mobility, vision, hearing, or mental or physical health are advised to discuss needs with Specialized Support and Disability Services, 2-800, SUB, (phone) 492-3381 or (TTY) 492-7269.

More on Exams:

- ✧ A number of "required problems" will be selected from the textbook.
- ✧ These problems are categorized: Basic, intermediate, advanced, challenge.
- ✧ Exam problems are selected from these problems.
- ✧ Distribution of points: 50% "basic", 35% "intermediate", 15% "advanced", 5% - 10% "challenge".

Temporary Schedule

Weeks	Topic	Chapters
1 - 3	1 st order equations	1, 2
3 - 6	2 nd and higher order equations	3, 4
7 - 9	Series solutions	5
10 - 12	Laplace transform method	6
13 - 14	Systems, qualitative methods	7, 9

Temporary homework due dates: Sep. 24, Oct. 8, Nov. 5, Nov. 26, Dec. 8.