

# Math 231 B – Differential Equations with Linear Algebra

## Fall Semester, 2007

**Instructor:** Amy Moore

**Office Location:** North Hall 285

**Office Phone:** (616) 526 – 8715

**Home Phone:** (616) 551 – 1318

**Email Address:** abm4@calvin.edu

**URL:** <http://www.calvin.edu/~abm4>

**Office Hours:** MWThF 10:30 – 11:30, T 12:20 – 1:20, and by appointment

**Course Website:** Homework assignments, solutions to quizzes and exams, and other course information will be posted at <http://www.calvin.edu/~abm4/courses/m231/F07>.

**Text:** *Elementary Differential Equations, Eighth Edition* by William E. Boyce and Richard C. DiPrima. Please bring your textbook to class.

**Equipment:** Students will be allowed to use graphing calculators on homework, quizzes, and exams. Calculators capable of symbolic manipulation and/or wireless communication will not be allowed on any quiz or exam. Some homework assignments will require the use of mathematical software, such as *Mathematica* or an online tool.

**Course Content:** Chapters 1 – 3 and 6 – 9 will be covered, with some additions and omissions.

**Reading:** Students are expected to read each section. The examples presented in class will be different from those presented in the text. Students are responsible for all the material presented in class and in the text.

**Homework:** Homework will be assigned at the end of each section and will be collected on Monday of each week, with the exception of the first week. Assignments will be due at the beginning of class on the day they are due. Late homework will be penalized 15% for each day it is late and will not be accepted after the assignment has been returned to the other students. Each homework assignment will be worth 10 points, which will account for 130 of the total points.

**Quizzes:** Three quizzes will be given in class and one take-home quiz will be given. Each quiz will be worth 25 points. Tentative dates for the in-class quizzes are: Friday, September 14; Friday, October 12; and Friday, November 9. The take-home quiz will be due on the last day of class, Friday, December 7. *No make-up quizzes will be given.* Unless a valid excuse is presented in advance, a missed quiz will result in zero points being awarded.

**Exams:** Three one-hour exams will be given in class. Each exam will be worth 100 points. Tentative dates for those exams are: Friday, September 28; Friday, October 26; and Friday, November 30. *No make-up exams will be given.* Unless a valid excuse is presented in advance, a missed exam will result in zero points being awarded.

**Final Exam:** The final exam will be given on Tuesday, December 11 at 1:30 p.m. The final exam will account for 200 of the total points. *No make-up final exams will be given.* Unless a valid excuse is presented in advance, a missed final exam will result in zero points being awarded.

**Grades:** Grades will be based on the total number of points earned. There will be 730 total points, consisting of 130 homework points, 100 quiz points, 300 exam points, and 200 final exam points. A percentage will be calculated and grades will be assigned. A grading scale, no worse than the following, will be used.

A:	93% - 100%	B-:	80% - 82%	D+:	67% - 69%
A-:	90% - 92%	C+:	77% - 79%	D:	63% - 66%
B+:	87% - 89%	C:	73% - 76%	D-:	60% - 62%
B:	83% - 86%	C-:	70% - 72%	E:	0% - 59%

**Attendance:** Although attendance will not always be taken, attending every class is highly recommended. You are responsible for all information given in class. Any changes to this syllabus will be announced in class. In the case of borderline grades at the end of the semester, attendance may be considered in determining final grades.

**Academic Honesty:** All students are expected to adhere to the College's policy regarding academic integrity.

**Accommodations:** Appropriate accommodations will be made for students with documented disabilities. Students needing accommodations should notify the Coordinator of Services to Students with Disabilities located in Student Academic Services, HH455. Those students should also notify their instructors within the first two weeks of class.

## Tentative Schedule

Note: The schedule below is tentative. Any changes to this schedule will be made in class.

	Monday	Wednesday	Thursday	Friday
Week 1	<b>Labor Day- No Class</b>	9/5	9/6	9/7
Week 2	9/10 <b>HW 1 Due</b>	9/12	9/13	9/14 <b>Quiz 1</b>
Week 3	9/17 <b>HW 2 Due</b>	9/19	9/20	9/21
Week 4	9/24 <b>HW 3 Due</b>	9/26	9/27	9/28 <b>Exam 1</b>
Week 5	10/1 <b>HW 4 Due</b>	10/3	10/4	10/5
Week 6	10/8 <b>HW 5 Due</b>	10/10	10/11	10/12 <b>Quiz 2</b>
Week 7	10/15 <b>HW 6 Due</b>	10/17	10/18	10/19
Week 8	10/22 <b>HW 7 Due</b>	10/24 <b>Advising- No Class</b>	10/25	10/26 <b>Exam 2</b>
Week 9	10/29 <b>HW 8 Due</b>	10/31	11/1	11/2
Week 10	11/5 <b>HW 9 Due</b>	11/7	11/8	11/9 <b>Quiz 3</b>
Week 11	11/12 <b>HW 10 Due</b>	11/14	11/15	11/16
Week 12	11/19 <b>HW 11 Due</b>	11/21	11/22 <b>Thanksgiving Break- No Class</b>	11/23 <b>Thanksgiving Break- No Class</b>
Week 13	11/26 <b>HW 12 Due</b>	11/28	11/29	11/30 <b>Exam 3</b>
Week 14	12/3 <b>HW 13 Due</b>	12/5	12/6	12/7 <b>Quiz 4 Due</b>

**Final Exam: Tuesday, December 11, 1:30 p.m.**