

Math 231 B – Differential Equations with Linear Algebra

Spring Semester, 2008

Instructor: Dr. Amy Moore

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Office Hours: MTWThF 10:30 – 11:20, and by appointment

Course Website: Homework assignments, solutions to quizzes and tests, and other course information will be posted at <http://www.calvin.edu/~abm4/courses/m231/S08>.

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, tests, and the final 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 not be accepted for any reason.* There will be a total of 13 homework assignments and each will be worth 10 points. Because late homework will not be accepted, homework points will be taken out of a total of 120 points instead of 130.

Quizzes: Four 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: Monday, February 4; Monday, March 3; Monday, April 7, and Monday, May 5. The take-home quiz will be due on the last day of class, Wednesday, May 7. Unless a valid excuse is presented *in advance*, a missed quiz will result in zero points being awarded. Out of the five quiz scores, the lowest score will be dropped. Therefore, quizzes will account for 100 of the total points.

Tests: Three one-hour tests will be given in class. Each test will be worth 100 points. Tentative dates for those tests are: Monday, February 18; Wednesday, March 19; and Monday, April 21. Unless a valid excuse is presented *in advance*, a missed test will result in zero points being awarded.

Final Exam: The final exam will be given on Thursday, May 15 at 9:00 a.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 720 total points, consisting of 120 homework points, 100 quiz points, 300 test 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	Tuesday	Wednesday	Friday
Week 1	1/28 No Class	1/29	1/30	2/1
Week 2	2/4 HW 1 Due Quiz 1	2/5	2/6	2/8
Week 3	2/11 HW 2 Due	2/12	2/13	2/15
Week 4	2/18 HW 3 Due Test 1	2/19	2/20	2/22
Week 5	2/25 HW 4 Due	2/26	2/27	2/29
Week 6	3/3 HW 5 Due Quiz 2	3/4	3/5	3/7
Spring Break Week	3/10 Spring Break- No Class	3/11 Spring Break- No Class	3/12 Spring Break- No Class	3/14 Spring Break- No Class
Week 7	3/17 HW 6 Due	3/18	3/19 Test 2	3/21 Good Friday- No Class
Week 8	3/24 HW 7 Due	3/25	3/26	3/28
Week 9	3/31 HW 8 Due	4/1	4/2	4/4
Week 10	4/7 HW 9 Due Quiz 3	4/8	4/9	4/11
Week 11	4/14 HW 10 Due	4/15	4/16	4/18
Week 12	4/21 HW 11 Due Test 3	4/22 Advising- No Class	4/23 Advising- No Class	4/25
Week 13	4/28 HW 12 Due	4/29	4/30	5/2
Week 14	5/5 HW 13 Due Quiz 4	5/6	5/7 Quiz 5 Due	5/8 (Thursday) No Class

Final Exam: Thursday, May 15, 9:00 a.m.