



MATH 3304A

Elementary Differential Equations

MWF 9-9:50, CSF G5E

Instructor: Brittany Cuchta
bwb65@mst.edu
Rolla 311
Office Hours: M 12-1, T 2-3
Learning Center: F 12-1

Prerequisite: Math 2222 with a grade of “C” or better.

Main Text: “Elementary Differential Equations,” 9th edition, by Boyce & DiPrima

Supplementary: “Schaum’s Outline of Differential Equations,” 3rd edition, by Bronson & Costa. Schaum’s Outline is very good for many more worked examples.

Topics Covered:

Chapter 1	Introduction
Chapter 2	First-Order Differential Equations
Chapter 3	Second-Order Linear Equations
Chapter 4	Higher-Order Linear Equations
Chapter 5.4	Euler Equations
Chapter 6	The Laplace Transform
Chapter 7	Systems of First-Order Linear Equations

Attendance: Attendance will not be taken for credit, but there is a strong correlation between attendance and performance in the class. As such, you are expected to attend every class for the full class period. If you know you will need to leave early for a valid reason, please speak to me before class starts. If you miss class, *you are responsible* for finding out what was covered during your absence (check Blackboard materials, discuss with others in the class).

Homework: All homework assignments should be stapled and solutions presented in order—failure to do so will result in the loss of points. You should make it a practice to do your homework promptly (i.e., daily) and you are expected to turn in homework regularly. Approximately 13 homework sets will be collected, graded, and returned during the semester. Your *top ten homework scores* will determine your 100-point homework grade. As such, **no late homework will be accepted for any reason.** Homework assignments will be due at the beginning of class every Friday unless announced otherwise (see the course schedule and Blackboard). This will allow you at least two days (usually more) to ask questions about homework problems. We will not take time to answer questions in class. For questions, come to my office hours, make an appointment to meet with me, go to the Mathematics Learning Center (see below), and go to LEAD sessions (see below). Solutions to selected homework problems will be posted at <http://web.mst.edu/~akine>.

Exams: There will be three common exams worth 100 points each and held **5:00 to 5:50 pm** on three Thursdays: **February 25, March 24, and April 28 in Schrenk G3**. Please realize that these three Thursday evening examinations are regularly scheduled classes published in the 2015 spring semester class offerings at the Registrars Office website. It is the responsibility of each student to ensure that he or she is not enrolled in two or more regularly scheduled classes at the same time slot. In particular, **no alternate exam times will be provided for students who claim a conflict with another regularly scheduled S&T class.** Note that no calculator is allowed in all Math 3304 exams. Your lowest hour exam score will be replaced with your percentage score on the final exam, provided this improves your point total in the course. Samples of Math 3304 exams, with solutions, are posted online in the library’s electronic course reserve.

Final Exam: The 200-point common comprehensive final exam will be given on **Wednesday, May 11 from 7:30 to 9:30 AM** in a room to be announced later.

Grading: On all your papers (homework, hour exams, and final exam), you are expected to show your work clearly and completely. You will be graded on your work as well as your answers. In particular, an answer that is unsupported by your work will not receive credit. Your grade will be determined as follows: There will be 600 total points—300 in hour exams, 200 for the final exam, and 100 in homework and quizzes. You will need at least 540 points (90%) to receive an A, 480 points (80%) to receive a B, 420 points (70%) to receive a C, and 360 points (60%) to receive a D. If you earn less than 360 points you can expect to receive an F.

LEAD Assistance: The Learning Enhancement Across Disciplines Program (LEAD) sponsors free learning assistance in a wide range of courses. LEAD assistance starts no later than the third week of classes. Evening peer tutoring is also available through the LEAD program. You may check the schedule online at <http://lead.mst.edu/assist>. For more information, contact the LEAD office at 341-4608 or email lead@mst.edu. The Mathematics & Statistics Department sponsors the (free) Mathematics Learning Center in room 105 of Centennial Hall. Some Mathematics & Statistics Department graduate teaching assistants who staff the learning center are current or former teachers of Math 3304 and are well-qualified to assist students with their homework problems in the subject. I will post the Mathematics Learning Center schedule of those GTAs who are equipped to handle your Math 3304 questions when I have it.

Grievances: If you have a situation that you cannot resolve through discussion with the me, you may contact the course coordinator, Dr. Elvan Akin, Rolla 310. If your situation is still not resolved, you may contact the department chair of mathematics, Dr. Stephen Clark, Rolla 202. If you find further action is necessary, you may contact the Vice Provost for Undergraduate Studies on the 2nd floor of Norwood Hall.

Please be aware of the following university services and policies:

Academic Dishonesty: Page 30 of the Student Academic Regulations handbook describes the student standard of conduct relative to the System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage. Additional guidance, including the University's Academic Dishonesty Procedures, is available online at <http://ugs.mst.edu>.

Title IX: Sex discrimination is prohibited by University policy and law in educational programs, activities and employment. Title IX applies to all students, employees, volunteers and visitors at the University and prohibits sexual harassment, sexual misconduct, and other forms of sex discrimination as defined in Section 600.020C of the Collected Rules and Regulations. As used in this policy, the word "sex" is also inclusive of the term "gender." More on the University's Title IX policy can be found at <http://titleix.mst.edu>.

Disability Support Services: Any student inquiring about academic accommodations because of a disability should be referred to Disability Support Services so that appropriate and reasonable accommodating services can be determined and recommended. Disability Support Services is located in 204 Norwood Hall. Their phone number is 341-4211 and their email is dss@mst.edu.

If you have a documented disability and anticipate needing accommodations in this course, you are strongly encouraged to meet with me early in the semester. You will need to request that the Disability Services staff send a letter to me verifying your disability and specifying the accommodation you will need before I can arrange your accommodation.