

Mathematics 3304 (formerly 204) Policies and Syllabus
Elementary Differential Equations
Fall 2014

Instructor: Dr. Elvan AKIN
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Office Hours: 10:00-10:50 TTh or by appointment.

Prerequisite: Mathematics 2222 (Calculus with Analytic Geometry III) with a grade of "C" or better.

Textbook: *Elementary Differential Equations* (ninth edition), Boyce and DiPrima, John Wiley & Sons, 2009. Also, a suggested reference is *Schaum's Outline of Differential Equations* (third edition), Bronson and Costa, McGraw-Hill, 2006.

Topics to be covered:

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

Attendance and Drop Policy: You are expected to attend every class period. If you know in advance that you will not be able to attend, please check with me ahead of time to determine what work you will miss. If you miss a class, it is your responsibility to find out what you missed, pick up any handouts, returned exams or homework, etc. If you incur three unexcused absences, you will receive an academic alert from me and you will be required to meet with me in my office to discuss your lack of attendance and its causes. If you accumulate six unexcused absences you can expect to be dropped from the course.

Homework: You should make it a practice to do your homework promptly (i.e. daily) and you are expected to turn in homework regularly. Approximately 14 weekly homework sets will be collected, graded, and returned during this course. Quizzes might be given as I deem necessary. Your top 10 scores among homework and quizzes will be used to determine your 100-point homework grade.

Homework assignments are due at 12:00PM every Friday. Please put your homework into my mailbox at room 208 Rolla Building. No late homework will be accepted. If you are having trouble with certain concepts or homework problems, be sure to get help from a classmate, LEAD, the mathematics tutoring room, or the instructor. *If you can't make my office hours, please feel free to contact me to arrange another time to meet.* Solutions to selected homework problems will be posted in the electronic reserve files at the S&T library: <http://web.mst.edu/~libcirc/files/math/math.htm>

Hour Exams: We will have three **common** hour exams worth 100 points each from 7:30 to 8:30 PM on three **Thursdays** this semester: **October 2, October 30, and December 4.** Please realize that these three Thursday evening examinations are regularly scheduled classes published in the 2014 fall semester class offerings at the Registrar's 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, student attendance is required at these three Thursday evening Math 3304 hour exams

Hour Exams (cont.): and no alternate exam times will be provided for students who claim a conflict with another regularly scheduled S&T class. No calculator is allowed in all Math 3304 exams. Your lowest hour exam score will be replaced by your percentage score on the final exam provided this improves your point total in the course. Samples of past Math 3304 (204) exams, with solutions, can be found at the Math 3304 electronic reserve files at the S&T library:

<http://web.mst.edu/~lib-circ/files/math/math.htm>

Final Exam: The 200-point common comprehensive Math 3304 final exam will be given on Monday, December 15 from 12:30 to 2:30 PM 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.

Question/Concern Resolution: If you ever have a question, problem, or concern about anything in this course, please come see me first. However, if this does not resolve it, you should next speak with the Math 3304 Course Coordinator, Dr. David Grow, in room 103 of the Rolla Building. If your concern still is unresolved then consult our Department Chair, Dr. Stephen Clark, in room 202 of the Rolla Building.

Disability Support Services: If you have a documented disability and anticipate needing accommodations in this course, please meet with me early in the semester. Before I can arrange for your accommodations, you will need to provide written documentation from the Disabilities Services staff in 204 Norwood Hall (dss@mst.edu, 341-4211) verifying your disability and specifying the accommodations you will require.

Academic Honesty: Academic honesty is vital to the intellectual life of the University. Students have a special obligation to be aware of and adhere to the standards of conduct as described on page 27 of the S&T Student Academic Regulations handbook:

<http://registrar.mst.edu/media/administrative/registrar/documents/academicregulations/academic%20regulations%202012-2014%20rev6.pdf>

In particular, this page offers descriptions of what constitutes cheating, plagiarism, and sabotage.

Emergency Egress Route: In case of an emergency, the egress route for evacuation of our classroom is posted at this web address:

<http://registrar.mst.edu/media/administrative/registrar/documents/egress>

LEAD Sessions: The Learning Enhancement Across Disciplines (LEAD) program sponsors free learning assistance in a wide range of courses for students who wish to increase their understanding and improve their skills. LEAD assistance starts no later than the third week of classes. For more information see the online schedule at <http://lead.mst.edu/assist>, contact the LEAD office at 341-4608, or email lead@mst.edu.

Mathematics Learning Center: The Mathematics and Statistics Department sponsors a free math learning center in 105 Centennial Hall. Some Mathematics and Statistics Department graduate teaching assistants who staff the learning center are current or former teachers of Math 3304 (204) and are well-qualified to assist students with their homework problems in the subject. At the beginning of the second week of the semester, I will announce the learning center schedule of those GTAs who are equipped to handle your Math 3304 questions.