MISSOURI UNIVERSITY OF SCIENCE AND TECHNOLOGY



Science & Technology

DEPARTMENT of MATHEMATICS and STATISTICS

Dr. Elvan Akin 310 Rolla Building Rolla, MO 65409-0020 Phone: 573-341-6677 Fax: 573-341-4741 akine@mst.edu http://web.mst.edu/~akine

Course Syllabus -- Elementary Differential Equations MATH 3304 Section F, Fall 2017

Lectures: MWF 11AM—11:50AM Engineering Management Office Hours: MWF 10:00-10:50AM Rolla 310

Course Webpage: Course materials and announcements will be posted on my webpage.

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

Textbook: Elementary Differential Equations (9th edition), Boyce and DiPrima, John Wiley & Sons, 2009. Reference: Schaum's Outline of Differential Equations (3rd edition), Bronson and Costa, McGraw-Hill, 2006. (<u>Note</u>: Schaum's Outline is very good for many worked examples.)

Topics to be covered:

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 two unexcused absences, you will receive an academic alert from me and you might be required to meet with me in my office to discuss your lack of attendance and its causes. If you accumulate *four* unexcused absences, you can expect to be dropped from the course.

Hour Exams: There will be three common hour exams worth 100 points each from 5:00 to 5:50 PM on three Thursdays this semester: September 21, October 26 and November 30. Please realize that these three Thursday afternoon exams are regularly scheduled classes published in the 2017 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 afternoon Math 3304 hour exams and no alternate exam times will be provided for students because of a conflict with another regularly scheduled S&T class.

No calculator and other electronic devices are 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. Note that this accounts for an hour exam that is missed for any reason. Samples of past Math 3304 exams, with solutions, can be found at Canvas (student resources for Math 3304 students) and my webpage.

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Final Exam: The 200-point common comprehensive Math 3304 final exam will be given on Wednesday. December 13, from 7:30 AM to 9:30 AM in a room to be announced later.

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. Totally 14 weekly homework sets will be collected, graded, and returned during this course. Quizzes will also be given, as I deem necessary. Your top 10 scores among homework will be used to determine your 100-point homework grade. Homework assignments are due at the beginning of lecture on every Friday. No late homework will be accepted. Solutions to selected homework problems will be posted online in the Canvas Math 3304 resource course as well as my webpage. If you have any questions/concerns about your homework scores, please let me know within one week after you receive the scores. 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 me.

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. 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 to receive an A (90%), 480 points to receive a B (80%), 420 points to receive a C (70%), and 360 (60%) points 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. If this does not resolve the matter, you should next speak with the Mathematics and Statistics Department Undergraduate Coordinator, Prof. Paul Runnion, in room 212 of the Rolla Building. If your concern still is unresolved, then see our Department Chair, Prof. Stephen Clark, in room 202 of the Rolla Building.

Disability Support Services: It is the policy and practice of Missouri University of Science and Technology to promote inclusive learning environments. If you have a documented disability you may be eligible for reasonable accommodations in compliance with university policy, the Americans with Disabilities Act of 1990, the Americans with Disabilities Amendment Act (ADAAA) of 2008, and Section 504 of the Rehabilitation Act of 1973. To request accommodations or assistance, please self-identify with Disability Support Services (DSS), 203 Norwood Hall. For more information or to register for services, contact DSS at (573) 341-6655 or by email at dss@mst.edu.

Emergency Egress Route: In case of an emergency, the egress route for evacuation of our classroom can be found at http://registrar.mst.edu/links/egress.html .

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Academic Honesty: Page 30 of the Student Academic Regulations handbook describes the student standards of conduct relative to the University of Missouri System's Collected Rules and Regulations section 200.010, and offers descriptions of academic dishonesty including cheating, plagiarism or sabotage. Academic dishonesty will not be tolerated and will result in a penalty of at least a failing grade on the affected assignment or exam. Also see the student council honor code and student resources for academic integrity from the Office of Undergraduate Studies.

Title IX: Missouri University of Science and Technology is committed to the safety and well-being of all members of its community. US Federal Law Title IX states that no member of the university community shall, on the basis of sex, be excluded from participation in, or be denied benefits of, or be subjected to discrimination under any education program or activity. Furthermore, in accordance with Title IX guidelines from the US Office of Civil Rights, Missouri S&T requires that all faculty and staff members report, to the Missouri S&T Title IX Coordinator, any notice of sexual harassment, abuse, and/or violence (including personal relational abuse, relational/domestic violence, and stalking) disclosed through communication including but not limited to direct conversation, email, social media, classroom papers and homework exercises. Missouri S&T's Title IX Coordinator is Vice Chancellor Shenethia Manuel. Contact her directly (manuels@mst.edu; (573) 341-4920; 113 Centennial Hall) to report Title IX violations. To learn more about Title IX resources and reporting options (confidential and non-confidential) available to Missouri S&T students, staff, and faculty, please visit http://titleix.mst.edu.