

MATH 254 – Introduction to Ordinary Differential Equations

Section 9H MWF 12:00 – 12:50

Fall 2016

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Text: *Fundamentals of Differential Equations*, UA Custom Edition by Nagle, Saff, and Snider.

(The UA custom edition is based on the eighth edition of the text.)

Course Objectives: Math 254 is an introduction to ordinary differential equations. Students who complete the course will be able to solve linear differential equations (both scalar equations and systems of equations) exactly and approximately using a variety of techniques.

Attendance: Students are expected to attend every scheduled class, and are responsible for material covered in their absence (excused or otherwise).

- **Administrative drops:** If you do not attend class at all during the first week, you may be administratively dropped from this section. If you cannot attend any of the lectures during the first week but wish to remain in this section, you must inform me as soon as possible.
- The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at: <http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop>.
- The UA's policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable. See: <http://policy.arizona.edu/human-resources/religious-accommodation-policy>.
- Absences pre-approved by the UA Dean of Students (or Dean Designee) will be honored. See: <https://deanofstudents.arizona.edu/absences>.

Classroom Behavior: To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (texting, chatting, reading a newspaper, making phone calls, web surfing).

Communication: It is the student's responsibility to keep informed of any announcements, syllabus adjustments or policy changes made during scheduled classes or by email.

Homework: (25%) Written homework will be assigned on a weekly basis. Your solutions to homework assignments should be written or typed clearly, with all steps shown and clearly explained. Homework must be turned in by the specified due date; late homework will not be accepted unless you obtain prior permission from the instructor. *You are encouraged to work together on homework in groups, but the final write-up must be your own.*

Calculators and other devices: Calculators and other electronic devices (including but not restricted to laptops, cell phones, and tablets) are **NOT** allowed on in-class exams or the final.

In-Class Exams: (39%, 13 each) Three in-class exams are **tentatively** scheduled for Wednesday, September 14; Monday, October 10; and Friday, November 4. Each exam will be worth 100 points. *All electronic devices must be turned off during all exams.*

In general, there will be no make-up exams in the course. However, in complex and unusual circumstances which are beyond your control, a make-up exam may be given on a case-by-case basis. This will require providing a detailed account of the situation and supporting documents. Approval in these cases is at the sole discretion of the instructor and/or the dean of students. According to university policy, no exams will be held on the week of December 5.

Final Exam: (36%) The final exam is a comprehensive exam. It is scheduled for Thursday, December 15 from 10:30 – 12:30 am. The University's Exam regulations will be strictly followed <https://www.registrar.arizona.edu/courses/final-examination-regulations-and-information>.

Grades: Your final course grade will be determined by a percentage of the total possible . Grades will be no lower than the following:

A: 100-90% B: 89-80% C: 79-70% D: 69-60% E: 59-0%

Students with disabilities: Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit <http://drc.arizona.edu>. If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate. Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.

Students withdrawing from the course: Must be made in accordance with University policy <http://catalog.arizona.edu/policy/grades-and-grading-system#Withdrawal>. You may drop the class without a W through September 4 using UAccess. The class will appear on your UAccess record, but will not appear on your transcript. You may withdraw with a W through October 30 using UAccess. The University allows withdrawals through November 18, but only with the Dean's approval. Late withdraws are dealt with on a case by case basis, and requests for late withdraw without a valid reason may or may not be honored.

Incompletes: Must be made in accordance with University policies, which are available at <http://catalog.arizona.edu/policy/grades-and-grading-system#incomplete>

University Policies:

- The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See <http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students>.
- Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See: <http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity>.
- The University is committed to creating and maintaining an environment free of discrimination. See <http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy>

Note: Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.