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Office: Little Hall 484

Office Hours: MW 4th, F 5th

Text: Fundamentals of Differential Equations and Boundary Value Problems, 9th Edition, by Nagle, Saff, and Snider

MAP 2302 is a 3 credit course which gives the basic knowledge necessary for understanding, applying, and solving differential equations of the most usual types (Chapters 2, 4, and 7 of the text, and parts of Chapters 5, 6 and 8).

Topics covered include: first order methods (separability, exactness, integrating factors, first order linear equations, Bernoulli equations); higher order constant coefficient equations (including particular solutions and general solutions via undetermined coefficients); and linear systems, Laplace transform methods, and power series solutions. Applications to physical problems will be included at various points in the course.

Monday 1/8: Introduction to the course, Newton's law of cooling example. Initial value problems. Sections 1.1 and 1.2.

Wednesday 1/10: Initial value problems continued. Separable equations. Sections 1.2 and 2.2.

Friday 1/12: Separable equations (conclusion), introduction to linear equations. Sections 2.2 and 2.3

Wednesday 1/17: Review of homework, Quiz 1

Homework problems will be assigned daily; homework will not be collected or graded but exam questions will be based on material covered in the homework assignments.

Homework problems will be listed in this space as the course progresses.

1/10: Section 2.2: 7, 9, 11, 13, 16, 21, 23, 25, 30, 34, 35 **Reading:** Sections 2.1 and 2.2

1/8: Section 1.1: all problems. Section 1.2: 1, 2, 3, 7, 14, 18, 19 **Reading:** Sections 1.1 and 1.2

There will be quizzes every week in which there is not an exam (except for the first week of classes). The course grade will consist of the quiz average (25% of the final grade) and three midterm exams (25% each). (The lowest two quiz scores are dropped before computing the final grade; because of this there are no make-up quizzes.) Final grades are assigned according to the standard scale: 93-100 A, 90-92 A-, 87-89 B+, 83-86 B, 80-82 B-, 77-79 C+, etc.

Tentative exam dates are as follows:

Exam 1: Wednesday, February 7
Exam 2: Wednesday, March 21
Exam 3: Monday, April 23

The (optional) final exam (Thursday, May 3, 5:30–6:30 PM) will serve as a make-up.

No notes or books will be allowed during exams.

Grading will be in accord with the UF policy stated at

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

The course will be conducted in accordance with the University honor code and academic honesty policy, which can be found in the

[student guide](#)

"Students with disabilities requesting accommodations should first register with the Disability Resource Center(352-392-8565),

<https://www.dso.ufl.edu/drc/>

by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester."

"Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at

<https://evaluations.ufl.edu>

. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>."

392-1575 <http://www.counseling.ufl.edu/cwc/Default.aspx>



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Page Updated January 8, 2018

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