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Elementary Differential Equations (MAP2302)

Spring 2017: Section 3141, MWF 2nd hour, Little Hall, room 127

Email: mjury@ufl.edu

Office: Little Hall 484

Office Hours: MW 4th, R 3rd, and by appointment

Text: Fundamentals of Differential Equations and Boundary Value Problems, 8th Edition, by Nagle, Saff, and Snider

Course Content

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 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 Laplace transform methods. Applications to physical problems will be included at various points in the course.

This week's lectures

Friday 1/6: Initial value problems continued. Blackbody radiation example. Separable equations. Sections 1.2 and 2.2.

Wednesday 1/4: Introduction to the course, Newton's law of cooling example. Initial value problems. Sections 1.1 and 1.2.

Past Lectures

Homework assignments

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.

1/6: Section 2.2: 7, 9, 11, 13, 16, 21, 23, 25, 30, 34, 35 **Reading:** Sections 2.1 and 2.2

1/4: Section 1.1: all problems. Section 1.2: 1, 2, 3, 7, 14, 18, 19 **Reading:** Sections 1.1 and 1.2

Grading policies

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 Monday, February 6
Exam 2 Wednesday, March 15
Exam 3: Monday, April 17

The (optional) final exam (Friday, April 28, 10:00-11:00 AM) will serve as a make-up.

No notes or books will be allowed during exams.

Additional Information:

Grades.

Grading will be in accord with the UF policy stated at

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

Academic Honesty

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

[student guide](#)

Accommodation for students with disabilities.

“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.”

Online Evaluations.

“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/>.”

Contact information for the Counseling and Wellness Center.

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

