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f15–map2302–syllabus

MAP 2302 Elementary Differential Equations

Fall 2015

Section	Period	Meeting Time	Room
6541	MWF 2nd	8:30 – 9:20 a.m.	LIT 125

Professor Alexandre Turull

480 Little Hall
 (352) 392-0281 ext. 243
 turull@ufl.edu

Office Hours

Monday	Tuesday	Wednesday	Thursday	Friday
12:50 – 1:40		12:50 – 1:40		12:50 – 1:40

Also by appointment

- **Calendar** — Lecture topics and their approximate dates.
- **Homework Problems** — List of homework assignments.

Textbook:

Differential Equations, by Dennis Zill and Warren Wright, eighth edition We will cover most of chapters 1-4 and 6-7.

Content:

MAP 2302 is a 3 credit course which gives the basic elementary knowledge necessary for understanding, applying, and solving differential equations of the most usual types (Chapters 1, 2, 3, 4, 6, and 7 of the text). This course is designed to serve students in engineering, physics, mathematics and related areas. It is taught in lecture format in small sections, with grading, computer usage and laboratory projects instructor dependent.

The course starts with an introduction to the concept of differential equations. It covers first order methods, including separability, exactness, integrating factors, first order linear equations, Bernoulli's equations, and second order equations reducible to first order ones. It also includes applications, including mechanics.

The course continues with higher order methods for constant coefficient linear equations including particular solutions and general solutions by the method of undetermined coefficients. Applications include vibrating springs, resonance, and electrical circuits.

The course covers Laplace transform methods, including properties of the Laplace transform, solution of initial value problems, and applications.

The course also covers series solutions of differential equations, including the study of ordinary and singular points, and the method of Frobenius.

Format:

Lectures. Reading and homework will be assigned and discussed in class. **You are expected to participate in classroom discussions.** Homework will be assigned regularly and discussed in class. Homework will not be graded. There will be frequent quizzes.

Calculator policy:

There will be no calculator or computer allowed in any exam or quiz.

Tests:

There will be four 60-point tests and a cumulative final.

Test 1: Friday, September 25, Test 2: Friday, October 16, Test 3: Friday, November 13, Test 4: Monday, December 7.

Final: Thursday, December 17, 10:00 a.m. — 12:00 p.m.

Quizzes:

There will be frequent unannounced quizzes.

Final grade:

4 tests		240
final		100
quizzes		60
Total		400

A ≥ 360		C ≥ 280
A- ≥ 346		C- ≥ 266
B+ ≥ 333		D+ ≥ 253
B ≥ 320		D ≥ 240
B- ≥ 306		D- ≥ 226
C+ ≥ 293		E < 226

UF grading policies for assigning grade points

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

Students with disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <http://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.

Attendance policy

Students are expected to attend class regularly. The UF policy on attendance is here:
<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Honor Code

UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code." On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (<http://www.dso.ufl.edu/scr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of this class.

Course evaluation:

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/>

Website:

<http://people.clas.ufl.edu/turull/f15-map2302-syllabus>

