

MAP 2302 (D001) Summer 2014

Ordinary Differential Equations I

Prof. **Zhe Liu**

E-mail : zhe.liu@ucf.edu

Office : MSB 420

Office Hours : M R 11:30 AM ~ 1:00 PM, or by appointment

Lectures : M T W R 1:00 PM ~ 2:20 PM, MSB 0204

Prerequisites : Grade of “C” (2.0) or better in MAC 2312; or MAC 2313

Textbook :

Elementary Differential Equations, 10th Edition, By W. Boyce and R. DiPrima

Description

Methods of solution for first order equations. Linear equations. Laplace transforms. Series solutions. Selected applications.

Course Website

- <http://math.cos.ucf.edu/~zheliu/teachingmap2302summer2014/>

Most course material (homework assignments, course calendar, announcements, etc.) will be posted on our course website.

- Your (homework and test) grades will be posted on Webcourses@UCF.

Evaluation

- Homework ($5 \text{ pts} \times 8 = \mathbf{40} \text{ pts}$)

Homework will be assigned weekly. Homework will not be graded. Five points will be given for each turned in and completed homework.

- Tests ($60 \text{ pts} \times (4 - 1) = \mathbf{180} \text{ pts}$)

There will be four in-class tests (see course calendar). The lowest test grade will be dropped. There will be NO make-up for missed tests. You are required to take all of the four tests. University related absences and medical reasons are considered as valid reasons for missing a test; in either case documentation is requested.

- Extra Credit (up to 10 pts)

Class attendance (details to be announced in class).

- The **TOTAL** possible points of this course will be **220**.

Course grades will be determined according to the following scale.

| | | |
|----|------------|-------------|
| A | [198, 220] | [90%, 100%] |
| B+ | [191, 198) | [87%, 90%) |
| B | [176, 191) | [80%, 87%) |
| C+ | [169, 176) | [77%, 80%) |
| C | [154, 169) | [70%, 77%) |
| D+ | [147, 154) | [67%, 70%) |
| D | [132, 147) | [60%, 67%) |
| F | [0, 132) | [0%, 60%) |

Calculators

You are allowed to use a basic scientific calculator (no programming, graphing, or symbolic manipulation capabilities) but NOT a graphing calculator. We recommend the “TI-30X IIS” or “TI-30XIIB” made by Texas Instruments. If you choose to use your own calculator, please ask for approval. If you fail to bring your calculator for a test, then you must take the test without one. Sharing of calculators will not be allowed. Use of technology other than an approved calculator is not allowed.

Academic Integrity

UCF faculty members have a responsibility for your education and the value of a UCF degree, and so seek to prevent unethical behavior and when necessary respond to infringements of academic integrity. Penalties can include a failing grade in an assignment or in the course, suspension or expulsion from the university, and/or a “Z Designation” on a student’s official transcript indicating academic dishonesty, where the final grade for this course will be preceded by the letter Z. For more information about the Z Designation, see <http://z.ucf.edu>. For more information about UCF’s Rules of Conduct, see <http://www.osc.sded.ucf.edu>.

Disability Services at UCF

The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities. Students who need accommodations must be registered with Student Disability Services, Ferrell Commons Room 185, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.