

# MATH 3113–002 Introduction to Ordinary Differential Equations

This is the information sheet for Introduction to Ordinary Differential Equations, MATH 3113–Section 002, for the Spring Semester 2016. It is your responsibility to acquaint yourself with all the information in this handout, and with any modifications to it that may be announced in class.

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**Class Times:** The class meets 3 days per week: on Mondays, Wednesdays and Fridays in PHSC 321 from 2:30PM to 3:20PM.

**Course Web Page.** <http://math.ou.edu/~nbrady/teaching/s16-3113>

**Office Hours.** Mon 10:20–11:20am; Tue 10:30am–11:30am; Thu 11:30am–12:30pm. Also by appointment.

**Text and Course Outline.** The primary textbook for this course is *Differential Equations and Boundary Value Problems* (5th ed.) by C. H. Edwards, D. E. Penney, and D. T. Calvis. ISBN 978-0-321-79698-1.

In this course we will learn about ordinary differential equations (ODEs) and their applications to modeling in science and engineering. In particular we will learn about first order ODEs (chapter 1), linear ODEs of higher order (chapter 3), linear systems of ODEs (portions of chapter 4 and chapter 5), and the use of the Laplace transform in solving linear ODEs (chapter 7).

**Lectures.** You are expected to attend all lectures, and are responsible for all information given out during them. In particular, this includes any changes to the midterm dates or content.

Furthermore, since class participation counts for one tenth of the overall course grade, it is important that you not miss class on a regular basis.

**Grading Scheme.** Grades will be assigned by weighting your totals from Homework, Midterms, and a Final Examination as follows:

<i>Homework</i>	20%
<i>Midterm Total</i>	50%
<i>Final Examination</i>	30%

The total number of points in the course is 100. Grades are assigned on the following scale:

$$A : 85 - 100, \quad B : 70 - 84, \quad C : 55 - 69, \quad D : 40 - 54, \quad F : 0 - 39.$$

Here are more details about each of these components.

**Homework.** Homework should be turned in at the **start** of class on due dates. You are responsible for ensuring that your homework gets turned in on time. Late homework will not be accepted; it disrupts the grading process and is unfair to other students.

**Midterms.** There are three midterms, the first of which is weighted less than the other two. They are held in class on the following dates:

*Midterm 1:* 10% of overall course grade. Friday, Feb. 12.

*Midterm 2:* 20% of overall course grade. Friday, Mar. 11.

*Midterm 3:* 20% of overall course grade. Friday, Apr. 22.

**Final Examination.** The final examination is cumulative (any topic covered in the course is fair game) and is worth 30% of the overall course grade. It is scheduled for Monday, May 9 from 4:30PM until 6:30PM, and is held in the usual classroom — PHSC 321.

**Taking Examinations.** All examinations must be taken at scheduled times, except in *extreme circumstances*. So be careful not to make travel arrangements that conflict with examination times. If you cannot take an examination at a scheduled time, you should contact me *well in advance of the test time*. Otherwise, an absence at an exam will result in a score of zero.

**Policy on W/I Grades.** You can find the Spring 2016 academic calendar at [http://www.ou.edu/content/admissions/academic\\_calendar.html](http://www.ou.edu/content/admissions/academic_calendar.html)

Until Feb 1, there is no record of grade for dropped courses. From Feb 2 through Apr 1, undergraduates may withdraw from this course and receive an automatic W grade, *no matter what scores they have so far achieved*. From Apr 4 on, University regulations specify that you may withdraw only with the permission of the College Dean.

Students who are failing the course should not expect to receive an “I” grade in place of a “W” grade. I will only consider assigning an “I” grade if the situation satisfies the following criteria.

1. the student is already maintaining a passing grade,
2. the student has completed most of the course work, and
3. the student can demonstrate that he/she is unable to complete the work at this time due to circumstances beyond his/her control.

**Academic misconduct.** All cases of suspected academic misconduct will be reported to the Office of Academic Integrity Programs as possible violations of University’s Academic Integrity Code. If the violation is confirmed by the Office of Academic Integrity Programs, the penalties can be quite severe, so the best advice is **Don’t do it!** For more details on the University’s policies concerning academic misconduct consult the link <http://integrity.ou.edu/students.html>

This link also has information about admonitions (essentially warnings about potential misconduct for fairly minor infractions) and your rights to appeal charges of academic misconduct.

The **Student Conduct Office** also contains information about student rights and responsibilities.

**Accommodation of Disabilities.** The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. If you require special accommodation in this course you are requested to speak with me as early in the semester as possible (preferably by the end of the first week). Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone (405) 325-3852 or TDD only (405) 325-4173. Their website is at <http://www.ou.edu/drc/>.

**Religious Holidays.** It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays.

Students who plan to observe a religious holiday which may conflict with a class time, should notify me as soon as possible (preferably within the first week of the semester), so that we can make appropriate arrangements.

**Mathematics Department student resource page.** The [Undergraduate Information](#) page on the Mathematics Department server is a good resource. It has links to the Math Center, the OU MathClub blog, and has information about obtaining a Mathematics minor or major.

**The OU MathClub Blog.** The [OU MathClub blog](#) is an excellent way of finding out what's going on math-wise at OU.