

Differential Equations  
Math 2233-001; Summer 2015

**Room and Time:** MSCS 514, MTWR 9:00-10:15

**Instructor:** Alek Malcom, MSCS 421

**e-mail:** alekzam@okstate.edu (start the subject line **Math 2233** in all correspondence)

**Office Hours:** Mondays and Wednesdays 12 (noon) to 1 pm in the MLSC. Appointments can be arranged by email.

**Text:** *Elementary Differential Equations and Boundary Value Problems* (10<sup>th</sup> ed.), by Boyce and DiPrima.

**Course Content:** Math 2233 introduces a toolkit of basic techniques for solving differential equations, which arise naturally in science and engineering. We will cover most of the first six chapters of the text in the approximate order 1, 2, 3, 4, 6, 5.

**Calculus Review:** The first lecture will consist of a review of the necessary calculus concepts needed for this course. At the start of the second day of the course, we will have a short quiz on calculus and algebra skills. The quiz will be graded as a pass/fail where passing occurs if at least 8 of the 10 questions are answered correctly. For those who do not pass there will be an opportunity to retake this quiz later during the week for majority credit.

**Grading:** Your grade will be calculated by the following:

Homework/Quizzes	18%
Calculus Quiz	9%
2 Midterms	each 18%
Final Exam	37%

Letter grades at the end of the course will be assigned as follows. 90% guarantees an A, 80% guarantees at least a B, and so on. There may be some extra credit available.

**Calculator:** A calculator may be necessary for some homework assignments, but no calculators will be allowed on the exams or quizzes.

**Homework and Quizzes:** A significant portion of your grade will come from short (between five and fifteen minutes) quizzes which will be unannounced and for which you may need to have a spare sheet of paper. A few representative problems will be assigned from each section as homework and these assignments will be collected periodically, with at least one day's notice – keep up with your homework.

**Attendance:** Students are expected to attend all classes and have with them a spare sheet of paper if a quiz appears, as well as all problems due for the week.

**Exams:** The comprehensive final exam is scheduled for Thursday, 30<sup>th</sup> of July, during normal class time at the standard class location. The two midterms will be tentatively scheduled for Wed June 24th and Mon July 13th.

**MLSC:** The Math Learning Success Center is found in the top floor of the (Edmon Low) library. I will update this syllabus on D2L if they announce that they will have tutoring for this specific class (which they did last semester).

**Missed Work Policy:** A student shall be offered reasonable accommodation in the event that he or she misses an exam for a valid and documented reason. Arrangements must be made at the first opportunity.

**D2L:** D2L will be used to post homework assignments, practice exams, occasional solutions to homework problems, exam grades, etc. Students should regularly check D2L. Announcements and reminders may be sent using the email addresses stored in D2L, so make sure that you input there an email address that you use. D2L is located at <https://oc.okstate.edu/>

**Syllabus Attachment:** For various information such as drop dates, university policies on student disabilities and academic dishonesty, etc, see the OSU Syllabus Attachment which has been uploaded to D2L.