Differential Equations (MATH 315-01)
Spring, 2016
MWF 10:10-11:00, Webster 17

Instructor: Robert Dillon
Office: Neil 324
Office Hours: T,TH 10:00-10:50, and by appointment
Telephone: 509-335-5110
Email: dillon@math.wsu.edu
Web Page: math.wsu.edu/math/faculty/dillon

Teaching Assistant: TBA
Email: TBA
Office Hours: TBA

Textbook:
Differential Equations and Boundary Value Problems

Tutoring and Computer Lab:
Mathematics Learning Center (MLC), Cleveland 130, Sunday: 4pm-9pm, Monday-Thursday: 10am-9pm, Friday: 10am-5pm
Thompson Computer Lab, Thompson Room 1, Sunday: 4pm-9pm, Monday-Thursday: 12pm-9pm

Outline: Math 315 provides an introduction to the subject of ordinary differential equations (ODEs) and includes direction fields, classification of ODEs, solution methods for first order ODEs (including linear, separable, autonomous, and exact equations); solution methods for second order linear ODEs; general theory of higher order linear differential equations. In addition, the course provides an introduction to the series solution of second order linear equations, Laplace transforms, and systems of first order linear equations. The subject matter is drawn from Chapters 1-6, 8, 9, 11.

Grading:
The course grade will be based on weekly assignments (30%), two midterm exams (40%) and a comprehensive final examination (30%).
SCALE (in percentage): A 92, A- 90, B+ 86, B 82, B- 80, C+ 76, C 72, C- 70, D+ 64, D 60.
In practice, the cutoffs for the grades may be lower than the above numbers, but they will not be higher.

Exam Schedule
Midterm 1: Thursday, February 18, 6-7pm, Todd 216
Midterm 2: Wednesday, April 6, 6-7pm, Todd 216
Final Exam: Friday, May 6, 7-9pm, TBA
Assignments
Assignments for one week (MWF) are due on the following Wednesday by 5 p.m. Assignments should be neat, organized, and stapled. Your best 12 of 14 homework assignments will be counted in the homework score. Assignments that appear to be copied will be given a zero grade. Assignments copied from a solutions manual or outside sources may be given a grade of zero. Show supporting work or explanation on every problem. Assignments turned in after the due date will not be accepted, except in special circumstances.

Students with Disabilities
Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center.

WSU Safety Measures
Washington State University is committed to maintaining a safe environment for its faculty, staff, and students. Please visit http://safetyplan.wsu.edu and http://oem.wsu.edu/emergencies to access the Campus Safety Plan and emergency information. You should also become familiar with the WSU Alert Site (http://alert.wsu.edu) where information about emergencies and other issues affecting WSU will be found.

Academic Integrity
I encourage you to work with classmates on assignments. However, each student must turn in original work. No copying will be accepted. Students who violate WSU’s Standards of Conduct for Students will receive an F as a final grade in this course, will not have the option to withdraw from the course, and will be reported to the Office of the Dean of Students. Cheating is defined in the Standards for Student Conduct WAC 504-26-010 (3). It is strongly suggested that you read and understand these definitions:
http://www.conduct.wsu.edu/Content/Documents/conduct/09-10