MA 266 Ordinary Differential Equations (Spring 2016)

Instructor:  Dr. Moongyu Park
Office: MATH 1026  Phone: 494 – 4146
Email:  park633@purdue.edu

Office Hour:  Wed, Thu 2:00 pm – 3:30 and by appointment

Course web page:  http://www.math.purdue.edu/~park633/MA266.html
Matlab files, Project, Assignment sheet and Supplementary exercises

Class Schedule:  MA 266 – 51:  MWF 10:30am – 11:20am in REC 315
MA 266 – 91:  TR 04:30pm – 05:45 in UNIV 217


Web Pages:
(1) Web-Assign:  https://webassign.com/
https://www.webassign.net/purdue/login.html
(2) ODE software for Matlab:  direction field (Chapter 1)  http://math.rice.edu/~dfield

Course Description  (Credit Hours: 3.00)

Topics:  Chapter 1, 2, 3, 4, 6, 7

First order equations, second and n-th order linear equations, series solutions, solution by Laplace transform, systems of linear equations.

It is preferable but not required to take MA 265 (Linear Algebra) either first or concurrently.  This course is not open to students with credit in MA 262, 272, 360, 361, or 366.  Typically this course is offered Fall, Spring, Summer.

Course Grade:  Calculators will not be allowed in any tests and quizzes.
Web-Assign HW (60) + In-class HW (40) + Quiz (50) + Midterm exams (2*100) + Projects (50) + Final (200) = 600

**Homework (100):** The homework due in any given week is the homework corresponding to the material of the previous week. Homework must be readable and must be stapled. Illegible scribblings will receive no credit from the grader. For a homework problem done with Matlab you should hand in the printout of your Matlab session (or at least the relevant parts). You are encouraged to attempt all the questions and discuss with your classmates. However, the write-up must be of your own. HW for Web-Assign online problems should be submitted online by **Wednesday 11:00pm.** The problems (if Hand-graded problems) not submitted online, including all Matlab projects, will be collected **every Thursday/Friday in class. No late assignments will be accepted.**

**Quizzes (50):** Quizzes will be given every other Thursday/Friday. Most questions of quizzes will come from problems of previous HW and (or their variations). There will be no make-up quiz. If you have a University-approved excuse, you will get your average.

**Midterm Exams (200):** There will be two mid-term exams on the date to be announced. If I am given a University-approved excuse you may take a make-up exam. The problems in the make-up exam will be different from the original problems. They could be harder. All work must be shown.

**Final Exam:** The Final Exam will be a two-hour comprehensive multiple choice exam given during the Final Exam Week (May 2 – May 7). The time and place will be announced in class. Since the final exams will be multiple choice, there will be no partial credit.

**Important Comments:** Class attendance is expected. Reading the sections in the textbook ahead of time is strongly recommended. Check the course webpage often. It contains important course-wide announcements, instructor contact information, Assignment Sheet, Supplementary Problems, Computer Projects, and Matlab tutorials for dfield8, eul, ode45, and pplane8.

**Accommodations for students with disabilities:** If you have been certified by the Disability Resource Center (DRC) as eligible for academic adjustments on exams or quizzes see [www.math.purdue.edu/ada](http://www.math.purdue.edu/ada) for exam and quiz procedures for your mathematics course or go to **MATH 242** for paper copies.

**Campus Emergency Notice:** [www.math.purdue.edu/MA266](http://www.math.purdue.edu/MA266) or the course web-page.