

Drexel University

ENGR 232 Dynamic Engineering Systems

Syllabus

Winter 2013

Lecturer:

Dr. Oleh Tretiak Bossone 610, 215 895 2214 tretiak@drexel.edu
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Recitation Instructors: Office hours listed on the web site.

Dr. Gennady Friedman Bossone 510 , 215 895 2108 gary@coe.drexel.edu	Dr. Peter Herczfeld Bossone 511, 215 895 2256 herczfeld@ece.drexel.edu
Dr. Bahram Nabet Bossone 502, 215 895 6761 nabet@ece.drexel.edu	Dr. Vasileios Nasis Bossone 413g, 215 895 2257 vtn23@drexel.edu
Dr. Christopher Peters Bossone 512, 215 895 6604 cpeters@coe.drexel.edu	Dr. P. M. Shankar Bossone 311, 215 895 6632 pshankar@coe.drexel.edu
Dr. John Walsh Bossone 203, 215 895 2360 jwalsh@coe.drexel.edu	

Teaching Assistants: Office hours listed on the web site.

Mr. Sayandeep Acharya sa427@drexel.edu	Ms. Yang Gao yg66@drexel.edu
Mr. Steven Essinger sde22@drexel.edu	Mr. Chong Liu chong.liu@drexel.edu
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Ms. Natalie Shainsky ns485@drexel.edu	Mr. Zhihuan Wang wangzhihuan0815@gmail.com

Textbook: Text material for the course is in the CUSTOM EDITION looseleaf that was used for ENGR 231 during the Fall term. The material in Chapters 5 through 9 in the Custom Edition is from chapters 1 through 5 in R. Kent Nagle, Edward B. Saff and Arthur David Snider, **Fundamentals of Differential Equations**, Eighth Edition, Pearson Addison Wesley, 2012. You may either get the book or the Custom Edition.

Course Goals: Develop models of engineering systems based on differential equations, introduce analytical and computational techniques for differential equations, and apply to case studies involving the analysis and evaluation of engineering systems.

Grading

- Two written exams: 15% each
- Homework Assignments: 10%
- Labs: 10%
- Two lab exams: 10% each
- Class performance: 5%
- Final: 25%

General Course Policies

1. All academic policies found at <http://www.drexel.edu/provost/policies/> will be strictly followed.

2. Bb Vista will be used for course communications, material distribution, and grade distribution. Please check your grades often and carefully. If you want to dispute any grade, it **MUST** be done within one week after the return of the homework or exam.

Statute of Limitations: After the one week, no grade changes will be made.

See your recitation instructor or teaching assistant for grade changes.

3. The overall grade will be a weighted sum of the components listed above. No components will be curved.

4. There will be no make-up exams/quizzes unless arrangements are made at **least one week** in advance of the exam/quiz date, or because of documented emergencies. A valid excuse must be presented to an instructor.

5. Homework assignments will be due as follows:

Lecture A (3 PM). Homework, electronic submission, on Fridays by 8 PM. Hard copy submission by 5 PM. Prelabs on Wednesdays by 8 PM.

Lecture B (4 PM). Homework, (web submission only) on Tuesday by 8 PM. Hard copy submission by 5 PM. Prelabs (web submission only) on Friday by 8 PM.

Collaboration is permitted and encouraged on homework problems, but each student must hand in their own work. No photocopies or duplicate files!

6. TA office hours will be held every Tuesday and Thursday, 12-5 PM, room TBA

7. Students in the Honors Program may get honors credit by completing a project. Please see your recitation instructor by the end of the second week of the term.

Lab/Recitation Policies

1. Recitations and labs will be held every week, including the first week. The locations for recitation sections are posted on master schedule.

2. The policies for the lab portion have been posted online in the Lab folder on Bb Vista. **IT IS YOUR RESPONSIBILITY TO GO OVER THESE POLICIES AND BE FAMILIAR WITH THEM BEFORE YOUR FIRST LAB/RECITATION SECTION!**

4. Every lab, except for the first, will consist of a prelab assignment and an in-class assignment. The prelab assignment is to be submitted electronically through the Bb Vista site, at times listed under the general courses policies.

3. Several problems will be posted on the web site prior to recitation. During the recitation portion students will be selected to present solution to these problem at the board. These presentations will be graded and these grades will determine the class performance part of the final grade.