Changes to the syllabus will be announced in class and through email on Angel.

Prerequisite: Math 141 or Math 141H. Students who have passed math 251 may not schedule math 250 for credit.

Website: www.math.psu.edu/ug/courses/math250

Textbook: *Differential Equations with Boundary Value Problems*, Zill and Wright, 8th edition

Sections covered:

- **Ch.1**: 1.1, 1.2
- **Ch.2**: 2.1 (only 2.1.2), 2.2, 2.3
- **Ch.4**: 4.1, 4.2, 4.3, 4.4
- **Ch.5**: 5.1
- **Ch.7**: 7.1, 7.2, 7.3, 7.5
- **Ch.8**: 8.1, 8.2 (2x2 matrices only)
- **Ch.10**: 10.1, 10.2, 103, 10.4

The schedule of topics may be found in the course calendar pdf.

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**Grades**: Grades will be assigned on a 500 point basis distributed as follows:

- Midterm Exam I: 100 points
- Midterm Exam II: 100 points
- Final Exam: 150 points
- Homeworks and Quizzes: 150 points

The total number of points earned during the semester will determine your course grade as follows:

- A : 500 - 455
- B+ : 444- 425
- B : 424 - 405
- B- : 404 - 385
- C+ : 384 - 365
- C : 364 - 330
- D : 329 - 300
- F : 299 - 0

**Exams**: There are 2 Midterms and a Final. Room assignments for exams and precise date for the Final will be added to the section syllabus when they become available.

Exam Dates:

- Midterm Exam I: September 29, 6:30 - 7:45.
- Make-Up Exam I: October 5, 6:30 - 7:45.
- Midterm Exam II: November 8, 6:30 - 7:45.
- Conflict Exam II: November 8, 5:05 - 6:20.
- Make-Up Exam II: November 14, 6:30 - 7:45.
- Final Exam: During the week of December 12-16.
Exam Rules and Student Responsibilities:

Each student must bring his student ID to each exam.

Each student is responsible for knowing the times and places of the exams.

For conflict and make-up exams, students must sign the appropriate form in class with their instructor, during the week before the exam.

Conflict Exams: Although the conflict exams end at 6:20 pm, students will not be permitted to leave early, even if they complete the exam earlier.

Final Exam: The final exam will be scheduled on a day during the final examination period, announced during the semester. Do Not Plan to leave University Park until after finals week starting December 12, 2016. Students may access their final exam schedule through their LionPath account. Notice of conflicts is given on that final exam schedule. There are 2 types of conflict: direct and overload. Direct conflicts are 2 exams scheduled at the same time. Overload conflicts are 3 or more exams scheduled within 15 hours. For either conflict case, students may request a conflict final by filing through elion in the given time window. Conflict finals cannot be scheduled through your instructor. **No Make-up Finals** are offered.

Homeworks, Quizzes, Classwork: This is specific to each instructor. Refer to your section syllabus for detailed information on the point distribution, expectations, and late policies.

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**Course Goals**: We will survey and classify several fundamental ordinary differential equations (ODE’s) typically encountered in the physical sciences. Our goal is to solve the ODE’s and/or analyze salient properties of the solutions, and demonstrate mastery of the general methods used for the different types of ODE’s we study by answering questions and solving ODE’s.

**Attendance**: Essential, and not used in computing grades.

**Methods for Learning**: There is no substitute for practice, so students should solve problems assigned and review classroom examples as their primary tool for learning. The course is taught in the traditional lecture style, and attendance is expected and in class questions and discussions are strongly encouraged.

You should **prepare for each lecture by reading ahead** in the text before class, by consulting the course calendar pdf you can see what topics will be covered. Questions should be given in class or during your instructor’s office hours. If you have a conflict with scheduled office hours, talk to your instructor to try to find alternate times to meet.

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**Academic Integrity Statement**: Each instructor of MATH 250 is committed to academic integrity and all University policies as well as Eberly College of Science policies are followed strictly. With regard to cheating, here is a quote on the subject:

” Academic dishonesty includes, but is not limited to, cheating, ... facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the work of other students ... A student charged with academic dishonesty will be given oral or written notice of the charge by the instructor. If the student believes he has been falsely accused, he should seek redress through informal discussions with the instructor, the department head, dean, or campus executive officer. If the instructor believes the infraction is sufficiently serious to warrant the referral of the case to Judicial Affairs, or if the instructor will award a final grade of F in the course because of the infraction, the student and instructor will be afforded formal due process procedures.”
From *Policies and Rules, Student Guide to the University*, Policy 49-20. Please see the Eberly College Academic Integrity homepage for additional information and procedures. 

Exam, quiz, any other assignments and homework answers **must be your own answers.**

**Students with Disabilities:** Penn State welcomes students with disabilities into the University’s educational programs. Every Penn State campus has an office for students with disabilities. The Office for Disability Services (ODS) Web site provides contact information for every Penn State campus: [http://equity.psu.edu/ods/dcl](http://equity.psu.edu/ods/dcl). For further information, please visit the Office for Disability Services Web site: [http://equity.psu.edu/ods](http://equity.psu.edu/ods). In order to receive consideration for reasonable accommodations, you must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: [http://equity.psu.edu/ods/doc-guidelines](http://equity.psu.edu/ods/doc-guidelines). If the documentation supports your request for reasonable accommodations, your campus’s disability services office will provide you with an accommodation letter. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. You must follow this process for every semester that you request accommodations.

**Calculators:** Not permitted on exams. You may however find it useful as a study aid to gain additional understanding. This includes computers and software such as MatLab/ Wolfram Alpha, and the like.

**Tutoring:** Penn State provides additional help to all students of MATH 250 at the Penn State Learning Center - see their webpage for locations: [pennstatelearning.psu.edu](http://pennstatelearning.psu.edu)

**Regular Add Deadline:** August 28

**Regular Drop Deadline:** August 27

**Late Drop Deadline:** November 11

**Conflict Filing Deadline:** October 16

**Questions, or concerns:** If you have questions or concerns about the course, contact your instructor. If further guidance is needed, you may also contact the course coordinator whose information is given below:

Dr. N.Z. Handzy
117 McAllister Building
nzh100@psu.edu