**Department of Mathematics - North Dakota State University**

**MATH 266 Introduction to Differential Equations** - Spring 2011, 3 credits

**SYLLABUS**

**INSTRUCTOR:** Cristina Popovici  
**OFFICE:** Minard 309C, Phone 231-8104  
**E-MAIL:** cristina.popovici@ndsu.edu

**OFFICE HOURS:** MWF 9:00AM-9:50AM or by appointment

**CLASS MEETS:** MWF 11:00AM-11:50AM, Dolve Hall 204  
**WEB PAGE:** http://www.ndsu.edu/pubweb/~popovici/S2011-Math266.html  

**COURSE DESCRIPTION:** First order ordinary differential equations and their applications, second (and higher) order differential equations, Laplace transform, systems of first order linear differential equations. We will cover selected topics from Chapters 1-4, 6, and 7 of the textbook. The detailed list of topics to be covered and the corresponding sections in the textbook can be found in the attached “Course Schedule”.

**Prerequisites:** MATH 259 or 265. **Corequisites:** MATH 128, 129, or 429.

**COURSE OBJECTIVES:** The main goal of this course is to provide a solid understanding of the main ideas and methods in the field of Ordinary Differential Equations. Conceptual and computational skills will be developed, with an emphasis on understanding concepts. The students will be exposed to both theoretical and applied points of view.

**HOMEWORK:** Homework problems will be posted on the course web page as we proceed, usually after each lecture. Homework will not be collected, but you are strongly encouraged to work all the homework problems (and even beyond these) since this is the best way to ensure that you understand the material covered in class. If you have troubles with any of the assigned problems (or any others in your textbook) please see me as soon as possible.

**QUIZZES:** Except for the first and the last week of classes, there will be a quiz once a week covering the material from the previous week’s lectures.

**EXAMS:** There will be three **in-class** Exams (closed books and notes, no calculators) and a comprehensive Final Exam (closed books and notes, no calculators) which will be given according to the following schedule:

- **EXAM # 1 - WEDNESDAY, FEBRUARY 16, 2011**
- **EXAM # 2 - WEDNESDAY, MARCH 23, 2011**
- **EXAM # 3 - WEDNESDAY, APRIL 20, 2011**

**FINAL EXAM - THURSDAY, MAY 12, 2011, 8:00AM-10:00AM**

The three midterm exams and the final exam are to be written individually, any collabora-
tion is prohibited. Makeup tests for the midterms will be given only in case of a legitimate (documented) excuse. If for some reason you are not able to take a particular exam at the scheduled time, you are required to inform me in advance. **There will be NO makeup final exam.**

**GRADES:** The breakdown of your final grade will be as follows:
- Quiz Average: 25%
- Exam # 1: 15%
- Exam # 2: 15%
- Exam # 3: 15%
- Final Exam: 30%

Your final grade for the course will be determined according to the following scale:
- 90-100 ..... A
- 80-89 ..... B
- 70-79 ..... C
- 60-69 ..... D

**ACADEMIC HONESTY:** All work in this course must be completed in a manner consistent with NDSU University Senate Policy, Section 335: Code of Academic Responsibility and Conduct (http://www.ndsu.nodak.edu/policy/335.htm).

**SPECIAL ACCOMMODATIONS:** The ADA requires that reasonable accommodations be provided for students with disabilities including physical, sensory, cognitive, systemic, learning, and psychiatric disabilities. Students eligible for special accommodations are strongly encouraged to discuss their needs with me at the beginning of the semester. I will be happy to make appropriate arrangements.

**CLASS ATTENDANCE:** Class attendance is expected. You will be solely responsible for missed handouts or announcements made during lecture. If you cannot attend a particular lecture, make sure that you stay informed regarding the information provided during that lecture.

You are welcome to discuss with me any questions or concerns about the course during my office hours or by appointment.