

MATH 275 – Ordinary Differential Equations Spring 2015

Time: Monday & Wednesday 9:35-11:00 **Room:** MSA 104

Prerequisite: Math 262 with a grade of “C” or better, or an appropriate placement level demonstrated through math assessment process.

Instructor: Dr. Mohamad Alwash

E-mail: alwashm@wlaac.edu **Phone:** (310)287-4216 **Office:** MSB-212

Office Hours: Monday -Thursday 11:00-12:25

Textbook: An Introduction to Differential Equations, by Florin Diacu.

Course Student Learning Outcomes

1. Solve first order equations using analytical, numerical, and qualitative methods.
2. Solve linear equations using the methods of variation of parameters and undetermined coefficients.
3. Solve initial value problems using the Laplace transforms.
4. Solve homogeneous and non-homogeneous systems of equations with constant coefficients using eigen-values and eigen-vectors.

Homework and Quizzes: Homework assignments will be given every day. These assignments will not be graded. However, the questions in the quizzes are from the homework assignments. We shall discuss the assigned questions during the next class period.

Please, do not expect that we do all the questions in class. The quizzes are worth 10% of the final course grade.

Projects: I will assign at least three projects. Each one is worth 5% of the final course grade. You will have at least one week to finish a project. The goal is to learn new concepts while doing the project.

Tests: There will be three tests and a final. Each of the three tests is worth 15% of the final course grade. Makeup tests will be given to students possessing valid excuses.

Final: The final will be a comprehensive exam. It is worth 30% of your final course grade.

Attendance:

If you miss 3 days, the instructor has the option of excluding you from the class.

Summary: Total 1000 points

Projects: 150 P; 50 P each; Quizzes: 100 P; Tests: 450 P; 150 P each; Final: 300 P

Grading:

A: 850-1000 B: 750-849 C: 650-749 D: 550-649 F: less than 550

Schedule (Tentative):

Weeks	Monday	Wednesday
2/9	Chapter 1	Chapter 2
2/16	Holiday	Chapter 2
2/23	Chapter 2	Chapter 2
3/2	Test 1	Chapter 3
3/9	Chapter 3	Chapter 3
3/16	Chapter 4	Chapter 4
3/23	Chapter 4	Chapter 4
3/30	Review	Test 2
4/6	Break	Break
4/13	Chapter 5	Chapter 5
4/20	Chapter 5	Chapter 6
4/27	Chapter 6	Chapter 6
5/4	Chapter 6	Chapter 7
5/18	Chapter 7	Chapter 7
5/25	Holiday	Test 3
6/1	No Class	Final

Final Exam Wednesday 6/3/2015, 10:15-12:15

Important Dates:

Last Day to Drop Without a "W": 2/20/2015

Last Day to Drop With a "W": 5/8/2015