

## *Course Syllabus*

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### **Course Information**

<i>Course Number/Section</i>	Math 6315/501
<i>Course Title</i>	Ordinary Differential Equations
<i>Term</i>	Fall 2016
<i>Days &amp; Times</i>	M&W 5:30-6:45 pm, CB3 1.308

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### **Professor Contact Information**

<i>Professor</i>	M.A. Hooshyar
<i>Office Phone</i>	2171
<i>Email Address</i>	ali@utdallas.edu
<i>Office Location</i>	FO 2.610 D
<i>Office Hours</i>	M&W 2:45-3:45 pm or by appointment

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### **Course Pre-requisites, Co-requisites, and/or Other Restrictions**

Math 5301-5302, Math 2420, Math 2418 or equivalent.

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### **Course Description**

1. Existence and Uniqueness of Solutions of Initial value ODE problems
  2. Linear Differential Equations
  3. Self-Adjoint ODE and Eigenvalue Problems on Finite Intervals
  4. Oscillation and Comparison Theorems for 2<sup>nd</sup> Order Equations
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### **Required Textbooks and Materials**

*“Ordinary Differential Equations,” By: Richard K. Miller and Anthony N. Michel*

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### **Student Learning Objectives/Outcomes**

1. Students will be able to articulate essential properties and theorems covered in the ODE course.
  2. Students will be able to apply their knowledge of ODE to analyze problems arising in applications in mathematics, physics, and engineering,
  3. Students will be able to perform quantitative and qualitative analysis of problems using the developed ODE methods.
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### **Assignments & Academic Calendar**

#### *Exam Dates*

Exam 1 – October 10, 5:30-6:45 pm in class

Exam 2 – November 16, take home

Final Exam – Final Exam – Dec 14, 5:00-7:45 pm in CB3 1.308

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### **Grading Policy**

HW = 16%, Exam 1= Exam 2=Final= 28%

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### **UT Dallas Syllabus Policies and Procedures**

The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus. Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

*The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.*