Course Description: This is a first course in Ordinary Differential Equations.

Teaching Staff: All times are in California time

Instructor: Umut Varolgunes
E-MAIL: umutvg@stanford.edu
Office Hours: Tu 4-6pm (starts: Apr 6)

TA: Milo Marsden
E-MAIL: mmarsden@stanford.edu
Office Hours: M 3-5pm

TA: Ka Yu Tam
E-MAIL: kytam@stanford.edu
Office Hours: W 4:30-6:30PM

TA: Francois-Simon Fauteux-Chapleau
E-MAIL: fsimon@stanford.edu
Office Hours: Th 3:30PM-5:30PM

You may attend the office hours of any teaching assistant.

Lectures & Sessions: All times are in California time

Lectures: 60 minute live lectures at 10am MWF (recorded)

TA Sessions: Live at various times (not recorded), Problem sheets released MW, Solution sets released for both on Th

Exams: There will be three take home midterm exams (see below for more instructions)

Midterm #1: Friday, April 23
Midterm #2: Friday, May 14
Midterm #3: Friday, June 4

Prerequisites: Single Variable Calculus (Math 19-20-21, or 41-42, or equivalent); Linear Algebra and Multivariable Calculus (Mathematics 51 or equivalent)


Course website: Most of the course material will be posted on [http://web.stanford.edu/class/math53/](http://web.stanford.edu/class/math53/). Videos will be posted on the Canvas website.

Grading Policy: The weekly homework and exams are weighted as follows:

- Homework: 50% (lowest grade dropped)
- Midterms: 20% for your highest two, and 10% for the lowest one
Passing Policy: Above 70 percent is a guaranteed C- or higher. There is no other predetermined information about grades.

Homework: There will be 6 graded homework assignments in total. The assignments will be posted on the course website on Wednesdays every week except the exam weeks. They will be due on Gradescope by Thursday midnight next week. The homework assigned on Week 9 will be for practice only and will not be graded.

Midterm Policy:
- These will be released shortly before the start of corresponding Friday. Each one will be due at midnight on Friday.
- You will be allowed to use up to 1000 pages of notes that you prepared yourself. You are not allowed to consult anything else during the exam day.

Schedule: The course will consist of four parts which are:
- Introduction to differential equations (1 week)
- Techniques for solving first order differential equations (3 weeks)
- Dynamical systems (3 weeks)
- Fourier series, Fourier and Laplace transforms (3 weeks)

A more detailed schedule along with references to the textbook will be made available in the course website as the quarter progresses. Heads-up: This course is intentionally slightly back-loaded. Expect the pace to speed up and material to get more difficult as the term progresses.

Other Important Dates:
- First Day of Classes ......................................................... March 29
- Add/Drop Deadline ......................................................... April 16
- Course Withdrawal & Change of Grading Basis Deadlines .................. May 21
- Memorial Day (holiday) ..................................................... May 31
- Last Day of Classes, Last Day to Arrange an Incomplete .................. June 4