This is the homepage for MAE294A during Fall Quarter 2014. Last updated: December 22, 2014.

**Practical details**

Lectures: MWF 10-10:50 am, CSB 004. My e-mail address is sgl@ucsd.edu, but if you have a question, talk to me before or after class, or come to office hours. Office hours: Tu 9-11 am. **It is your responsibility to come and find me if you have questions, concerns, etc...** TA: Daniel Freilich (dfreilic@ucsd.edu); office hours/problem class: M2-3 and M 5:30-6:30 in EBUII 305.

**Textbook**


**Syllabus**

1. Basic solutions of linear and nonlinear ODEs.
2. Green's functions for ODEs.
3. First order PDEs. The method of characteristics.
4. Classification of PDEs and important examples (heat, Laplace and wave equations).
5. Separation of variables.
6. Green's functions for PDEs.
7. Similarity solutions.

**Lecture Schedule (provisional)**

- Oct 3: **I Linear ODEs**
- Oct 6: (Cont.)
- Oct 8: (Cont.)
- Oct 10: (Cont.)
- **Oct 13:** (Cont.)
- Oct 15: (Cont.) **HW I due**
- Oct 17: (Cont.)
- **Oct 20:** (Cont.)
- Oct 22: (Cont.) **HW II due**
- Oct 24: (Cont.)
- **Oct 27:** (Cont.)
- Oct 29: **Midterm I**
Homework policy: you may discuss problems among yourselves, but everything you write and hand in should be your own work. Regrades: you should write a short explanation and turn it in to Daniel within one week of the homework being due.

- I Due Oct 15. [Solution.](#)
- II Due Oct 22. [Solution.](#)
- III Due Nov 5. [Solution.](#)
- IV Due Nov 12. [Solution.](#)
- V Due Nov 19. [Solution.](#)
- VI Due Dec 10. [Solution.](#)

Practice problems: see last year's website

Midterms

50 minutes, in class.

- I 10/29. [Solution.](#)
- II 12/3. [Solution.](#)

Suggestions about homework and the like (from 2005)

Final

Friday December 19, 2013: 8:00-10:59 am. [Solution.](#)

Grading policy
I remind you of UCSD's policy on academic integrity. I may rescale the three components (homework, midterm, presentation and project) separately to arrive at the final grade. See practical details.