Syllabus for MATH 211, Section 003  
Ordinary Differential Equations and Linear Algebra  
Fall 2011

Lecture:  
Time: Tuesday, Thursday 9:25–10:40 AM  
Place: HBH 427

Lecturer:  
James Cooper  
Office: HBH 47 (in the basement)  
Email: jmc10@rice.edu  
Web Page: math.rice.edu/~jmc10  
Office Hours: Wednesday 3:00–4:00 PM, Friday 2:00–3:00 PM

TAs and TA Sessions:  
Darren Ong, Andy Huang, Quentin Funk, Jung Hwan Park, Corey Bregman, Kenan Ince  
Times: Sunday, Monday, Tuesday 7:00–9:00 PM  
Place: Space Science 106

Prerequisites: Students are expected to have taken the first two calculus courses offered at Rice University covering differentiation and integration (MATH 101 and MATH 102 or equivalent).


Material to be Covered: We will cover separable and first order ODEs. The linear algebra content will include matrix manipulation, vector spaces, eigenvalues, eigenvectors, and solving systems of linear equations. Linear algebra will be applied to solve systems of ODEs. We will work with modeling phenomena using ODEs and finish with higher order ODEs.

Homework: Weekly homeworks will be due each Tuesday at the beginning of class. Collaboration with peers and classmates is encouraged, but each student must submit their own homework. Late homework will not be accepted.
**Exams:** There will be two in-class mid-term exams and one out-of-class final exam. Exams are cumulative by necessity.

The first exam will be September 22, 2011.

The second exam will be October 27, 2011.

The final will be scheduled by the registrar.

Barring major circumstances, make-up exams are not offered. If you feel as if your circumstances warrant a later exam, ask me before the exam date when possible.

**Schedule:** A history of sections covered and a tentative schedule of sections to be covered will be maintained on the course webpage.

**Grading:**
- Homework 10%
- First Exam 25%
- Second Exam 25%
- Final Exam 35%

The remaining 5% will be added to the weight of each student's highest mid-term exam score.

**Cheating:** Cheating will be dealt with in accordance with university policy and honor code.

**Expectations:** Students are expected to attend lectures and remain current with material being covered. If a student feels like they are falling behind he or she is encouraged to ask help from me or the TAs.

**Suggestions:** I am open to any suggestions for the improvement of the course. Any such comments should be brought to office hours or sent by e-mail.

**Disability Support:** Any student with a documented disability seeking academic adjustments or accommodations is requested to speak with me during the first two weeks of class. Discussions will remain as confidential as possible. Students with disabilities will need to contact Disability Support Services in the Allen Center as well.