MATH 2250, Section 004  
Differential Equations and Linear Algebra  
Fall Semester, 2008, University of Utah

Time: TTh 12:25PM-2:10PM  
Place: JWB 335 (John Widtsoe Building)

Instructor: Damon Toth  
Office: LCB 315 (LeRoy Cowles Building)  
Phone: 585-7657  
e-mail: toth@math.utah.edu  
Office hours: Wednesdays 4:30-6:00pm, Thursdays 10:00-11:30am, TTh right after class, or by appointment


Homework: There will be 12 homework assignments. Each homework will be due in class, one week (or more) from the date it is assigned. Homework will constitute 30% of the course grade.

Exams: There will be two midterm exams and a final exam, constituting 20%, 20%, and 30% of the course grade, respectively.


Teaching Assistants: Adam Gully and Shang-Yuan Shiu  
e-mail: gully@math.utah.edu and shiu@math.utah.edu  
TA help sessions: Wednesdays 3:05-3:55, LCB 121
**Course content:** We will cover most of the following chapters in the textbook, in this order:

- Chapter 1: First-Order Differential Equations
- Chapter 2: Mathematical Models and Numerical Methods
- Chapter 3: Linear Systems and Matrices
- Chapter 4: Vector Spaces
- Chapter 5: Higher-Order Linear Differential Equations
- Chapter 10: Laplace Transform
- Chapter 6: Eigenvalues and Eigenvectors
- Chapter 7: Linear Systems of Differential Equations
- Chapter 8: The Matrix Exponential
- Chapter 9: Nonlinear Systems

**Computing:** Some homework problems will require the use of computers, specifically the program *Maple*. Introductory sessions in Math computing and *Maple* will be offered to those who need it.

**Tutoring Center:** Room 155 of the T. Benny Rushing Mathematics Center (adjacent to the LCB and JWB) — free tutoring available for help on homework assignments, including computing problems. Check their schedule on their website: [http://www.math.utah.edu/ugrad/tutoring.html](http://www.math.utah.edu/ugrad/tutoring.html)

**TA Help Sessions for Sections 1 and 2:** These will be geared towards other sections of this class (taught by different instructors), but we are covering the same material and you are welcome to attend if you find them convenient. Section 1’s is on Thursdays, 7:30-8:20 in WEB 103. Section 2’s is on Thursdays, 8:35-9:25 in JFB 103.

**ADA statement:** The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, sensory, cognitive, systemic, learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations for the course.