

M238 Linear Algebra and Differential Equations (Summer 2008)

M, Tu, W, Th 9:00 - 12:15, Burruss 0030

F (as needed) 9:00 - 12:15, Burruss 0030

Text: *Linear Algebra and Differential Equations*, Peterson and Sochacki, Addison-Wesley, 2002.

Prerequisite: Math 236 or permission of instructor.

Instructor: Dr. Debra Polignone Warne, Office: Roop 107, Ph: 568 - 2546

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Website: www.math.jmu.edu/~warneda/math238Summer.html

Office Hours: TBD and by appointment.

Course Goals: In this course, the student should develop an understanding of the basic theory, applications, and connections of Linear Algebra and Differential Equations.

Course Content: This course covers topics in Chapters 1-6 of the above text and will treat matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, first order ordinary differential equations, second-order linear differential equations, and systems of differential equations. See the Daily Schedule for information on course progression and related homework for this summer term. As we will put 15 weeks of class into 4 weeks, be prepared to live, eat, and breathe Linear Algebra & Differential Equations. Missing one class is tantamount to missing a week of class during a regular semester. Work required for one class is equivalent to work required for a week of class during a regular semester. The pace will more demanding than anything you've ever encountered. Decide now that you're in it for the long haul or don't waste your (and everyone else's) time.

Homework: Homework will be assigned on a regular basis, and will not be collected. It is crucial to keep up with and put significant effort into your homework in order to grasp the concepts of this course.

Quizzes: There will be several quizzes taken generally from the assigned homework throughout the semester. There need be no notice before a quiz. No make-up quizzes will be given for any reason.

Roop 200 Learning Center: The Learning Center will be open during May session M-Th 11AM-4PM.

Grading Policy: 90 -100: A- to A range; 80 - 89: B- to B+ range; 70 - 79: C- to C+ range; 60 - 69: D to D+ range; 59 and below: F. No "WF" grades will be given. An exceptional job on the final exam or excellent class attendance and participation could bump borderline cases up to the higher grade.

Evaluation Policy:

- 1. Quizzes: 25 % .** Announced or unannounced on assigned HW problems or very similar problems.
- 2. Tests: 50 % .** There will be 2 tests during our quick 4 week semester. DO NOT MISS AN EXAM!!! Make-up exams will be given only in the most extreme of circumstances constituting a DOCUMENTABLE, EXTREME, SUDDEN, EMERGENCY situation. A missed exam for any other reason will result in a score of zero for that exam.
- 3. Comprehensive final exam: 25 %.** This will be held on Fri. June 6, 9:45AM -12:15PM.

For your information, a departmental syllabus and mission statement can be found at the following links:
www.math.jmu.edu/~carother/syllabi/SYL.htm and
www.math.jmu.edu/~carother/syllabi/missionandgoals.htm