Meet: 11:00 - 12:20 (TR) COR 101.

Instructor: Dr. Marcel Finan   Office: Corley 236.

Office hours: 10:00 - 11:00 (MTWRF) and 1:00 - 2:00(M).

Phone: 964 - 0854   E-mail: mfinan@atu.edu

Course Webpage: faculty.atu.edu/mfinan/3243/ann.html

Course Description: A study of the various methods for solving ordinary differential equations. The methods used are numerical (Runge-Kutta methods), analytical (separation of variables, variation of parameters, underdetermined coefficients, etc.), graphical (direction fields and phase lines) and Laplace transforms.

Prerequisites: MATH 2914 and MATH 2924 or equivalent.


Assessment Method: There will be FOUR 100-point tests and a 100-point final exam. Grades will be assigned on total points as follows: A (450 - 500), B(400-449), C(350-399), D (300-349), and F (below 300).

Important Dates: The tests are scheduled for Feb. 2, Feb. 23, March 16, and April 6. The final exam is scheduled on Monday May 8 from 8:00 - 10:00 in COR 101.

Course Objectives

The purpose of this course is twofold:
1. To enable the student to recognize and classify ordinary differential equations.
2. To develop methods for understanding (describing and computing) functions which solve these differential equations, the emphasis being on first and second order linear differential equations.

Arkansas Tech University does not discriminate on the basis of color, sex,
sexual orientation, gender identity, race, age, national origin, religion, veteran status, genetic information, or disability in any of our practices, policies, or procedures. If you have experienced any form of discrimination or harassment, including sexual misconduct (e.g. sexual assault, sexual harassment, stalking, domestic or dating violence), we encourage you to report this to the institution. If you report such an incident of misconduct to a faculty or staff member, they are required by law to notify Arkansas Tech Universitys Title IX Coordinator and share the basic fact of your experience with them. The Title IX Coordinator will then be available to assist you in understanding all of your options and connecting you with all possible resources on and off campus. For more information, please visit: http://www.atu.edu/titleix/index.php.

Arkansas Tech University adheres to the requirements of the Americans with Disabilities Act in order to prevent barriers to academic accessibility. If you need an accommodation due to a disability, please contact the ATU Office of Disability Services, located in Doc Bryan Student Center, Suite 171, or visit: http://www.atu.edu/disabilities/index.php.