Course Title/Number	**MTH 335, Ordinary Differential Equations**
Semester/Year	**Fall 2016**
Days/Time	**TR 5:00 to 6:15**
Location	**WAEC 3119**
Instructor	**Dr. Scott Sarra**
Office	**WAEC 3227**
E-Mail	**sarra@marshall.edu**
Office/Hours	**2:30 to 5:00 TR by appointment**
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to http://www.marshall.edu/academic-affairs/?page_id=802 Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

Course Description: From Catalog

Introduction to Ordinary Differential Equations. Modeling, methods of solution, theory, and numerical approximation. **Prerequisites**: MTH 231

Course Student Learning Outcomes

Upon completion of the course, students should understand how differential equations are used to model physical phenomena and understand the methods used to solve ODEs.

Required Texts, Additional Reading, and Other Materials

1. Elementary Differential Equations & Boundary Value Problems, 7th edition by W. Boyce and R. DiPrima. ISBN: 9780471319993

Class participation:

A flipped classroom approach will be taken in the course that puts more of the responsibility for learning on the shoulders of the students. Students will be given reading material in advance and then be asked to discuss it during class time. Students will be expected to collaboratively discuss problem solutions during class as well as to clearly explain solutions to problems that have been assigned.

Grading Policy

Grades for the course will be based on the following:

1. 100 points, Exam 1 – Wed. Sept. 21st or Wed. Sept 28th
2. 100 points, Exam 2 - Wed. Nov 2nd or Wed. Nov. 9th
3. 200 points, Comprehensive final exam. Monday, December 12th at 5:00 pm
4. 100 points, class participation

The grades will be averaged and the final grades will be assigned according to the percentage grade as:

90<=x <=100 -> A; 80<=x <90 -> B; 70<=x <80 -> C; 60<=x <70 -> D; x <60 -> F

Attendance Policy

Class participation accounts for 20% of the final grade. It is impossible to participate in class if you are not in class.

Makeup exams: If you are unable to take an exam due to an excused absence, you must contact me prior to the exam time and furnish the proper written verification of the absence as defined by the MU undergraduate catalog in order to take a make-up exam. Excused absences, as defined by the MU undergraduate catalog, fall into three categories: (1) university sponsored activities; (2) absences as a result of illness or death in the family; (3) absences resulting from major religious holidays. Consult the catalog for details.

Course Schedule: Selected topics from chapters 1 to 9 of the textbook will be discussed. A more detailed schedule will be given in class as we proceed through the semester.