Instructor: Sandy Belew  
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Office: H211-A  
Phone: 619-388-2385  
Office Hours:  
Monday, Wednesday: 11:00 - 12 p.m.  
Tuesday, Thursday: 9:30 – 11:00 a.m.

Text: Elementary Differential Equations with Boundary Value Problems by Ewards & Penny, 6\textsuperscript{th} edition.

*** No Cell Phones Allowed ***  
*** No Graphing Calculators or Media Devices Allowed ***  
*** No Whining allowed ***

We are here to Learn Math - a Negative Attitude is Nonproductive

Cheating: Cheating will not be tolerated. Copying any portion of any assignment constitutes cheating. If you have wandering eyes during exams you will be moved to the front of the class. Students are not allowed to use notes, graphing calculators, cell phones or any other media device during exams and quizzes. The use of any of the aforementioned constitutes cheating. If a student is caught cheating in my class I will file the appropriate form with the Dean of Student Affairs and ensure that the incident is recorded on the student’s academic record. Many universities will not accept a student with a record of cheating.

Homework: Homework will be assigned but not collected. In order to truly comprehend the material you must do the majority of the homework. There is no shortcut. Students who manage to cram for each exam without doing a sufficient amount of homework typically cannot do well enough on the final exam to pass the course. The practice of cramming simply does not work for an entire mathematics course.

Withdrawals: Though the instructor has the authority to drop a student for nonattendance, it is the student’s responsibility to drop any course he or she is not attending. If the student does not withdrawal and stops attending, the instructor will have to assign a grade of “F.”

Quizzes: There will be weekly quizzes. I will drop your 2 lowest quiz scores. Quizzes will be given on Wednesdays. There are no make-up quizzes. Quizzes comprise 15% of your course grade.
Exams: There will be 4 regular exams, the lowest of which will be dropped. There are no make-up exams. Exams comprise 60% of the course grade.

Final Exam: The final exam is comprehensive and comprises 25% of your course grade. In order to pass the course a minimum score of 65 on the final is required. The final is comprehensive.

STUDENT LEARNING OBJECTIVES:

Upon successful completion of the course the student will be able to:

1. Solve a variety of first order differential equations and initial value problems using several techniques including graphing solution curves based on isoclines, separation of variables, exact equations, calculating an integrating factor, and determining appropriate substitutions.
2. Analyze and assess whether a first order differential equation has a solution by applying the Existence and Uniqueness Theorem.
3. Solve a variety of real life problems applying first order differential equations including motion, variable acceleration, and population models.
4. Solve various types of higher order differential equations and initial value problems, in particular second order ordinary differential equations, using a variety of techniques including the method of undetermined coefficients, variation of parameters, and reduction of order.
5. Analyze and assess whether a differential equation of higher order has a solution using versions of the Existence and Uniqueness Theorem.

Notes:

1. Any students with disabilities should meet with me during the first week of class to ensure that any necessary accommodations can be arranged.

2. There is free tutoring in the math-tutoring center located in the Academic Skills Center which is on the second floor of the new student services building.

3. It is the student’s responsibility to keep all of his or her exams, and quizzes should there be any information that is miss-recorded.

4. The student is responsible for any and all information given during class, even if the student is absent.