

SYLLABUS

Code: MATH 274

Title: ELEMENTARY DIFFERENTIAL EQUATIONS

Institute: STEM

Department: MATHEMATICS

Course Description: This is an introductory course in concepts and applications of differential equations. Topics include classical methods of solving first- and higher-order differential equations, mathematical models for phenomena such as growth and decay, chemical reactions, motion of a body, spring-mass systems and electric circuits, qualitative and numerical aspects of differential equations, and systems of differential equations. Problems are approached from a variety of perspectives, including graphical, numerical, verbal, and algebraic. Computer software will be used extensively in class to gain a greater understanding of concepts as well as to consider non-routine problems.

Section Information: All tests will be proctored in person.

Prerequisite or Corequisite: MATH 273

Credits: 4

Lecture Hours: 4

Lab: 0

Required Textbook/Materials:

See your instructor addendum for a complete list of required materials for your section.

Textbook: Zill, Dennis G., *A First Course in Differential Equations with Modeling Applications*, Eleventh edition, Cengage Learning, 2018.

Note: WebAssign (EWA) will be required for online homework and quizzes in some sections. Check with your instructor.

Recommended Materials

Zill, Dennis G., Wright, Warren S., and Wright, Carol D. *Student Resource and Solutions Manual*, Brooks/Cole Publishing Company.

Additional Time Requirements

You may need to allow some on-campus time during each unit to meet with your group to work on the unit projects. Some discussions can be done via email, but you will need some group meeting time and your group may need to meet with your instructor to discuss parts of the project. For information on Brookdale's policy on credit hour requirements and outside class student work refer to Academic Credit Hour Policy.

Other Time Commitments

- In addition to the regular class hours, you will need to set aside time each week for homework. The weekly time will vary by topic and level of difficulty, but as an estimate, you should expect two homework hours for each class hour per week. For example, if your class

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Jessica J Manson



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