

Differential Equations
MAP2302
Spring 2017

Name: Jolene Rhodes

Office: 2-109

Phone: (407) 582-2335

e-mail: jrhodes@valenciacollege.edu

Student Engagement Hours: MW 1-2pm, TR 9-11:30am

Online hours: F 9am-12pm

Website: <http://frontdoor.valenciacollege.edu/?jrhodes>

Facebook: Valencia Jolene

Course Description: This course will give an introduction to differential equations. Topics include: first-order differential equations, applications of first-order differential equations, linear differential equations of higher order, applications of second-order differential equations, LaPlace transforms, numerical techniques, and qualitative analysis. The prerequisite is MAC2313 or departmental approval.

Required Course Materials:

TEXT: *Schaum's Outlines, Differential Equations*, Bronson and Costa, 4th edition

CALCULATOR: A graphing calculator is required for this course. Any TI-graphing calculator is acceptable. Storing notes, formulas, problems, etc. in the calculator is considered cheating. The instructor reserves the right to inspect the memory of the student's calculator at any time during the semester. If inappropriate information is found stored in the calculator during a quiz or test, the student will receive a 0 on that quiz or test (and that grade may not be dropped or replaced with the score on the final exam).

Optional Materials:

We will be using the Schaum's Outline book as a source for homework problems. If you would like a printed resource, a suggestion is to use any edition above the 4th of Zill, *A first course in Differential Equations with Modeling Applications*. You may also chose any DE book you think will be useful.

ACADEMIC SUPPORT CENTER:

A limited number of TI calculators are available for check out. Tutors are available on a drop-in basis.

CLASS POLICIES:

Attendance: Attendance is expected of all students except in case of an emergency. If due to an emergency you must miss class, it is your responsibility to find out what you missed either by contacting the instructor or another student.

Cell Phones and Other Disruptions: Students are expected to turn off cell phones at the start of class unless the instructor is notified of a possible emergency call. Being late to class or leaving early is a disruption to the class and is discourteous to the professor and the other students. All students are expected to be on time to class and to stay for the entire class period. Students are expected to behave in a manner that is conducive to learning both for themselves and others in the class. Students may be asked to leave if their behavior is deemed a disruption by the instructor.

Homework: Homework problems will be assigned for each section of the text. Students are expected to make an honest attempt to complete all assigned problems prior to the next class. It is recommended that you keep all homework neatly organized in a notebook.

Withdrawals: The withdrawal deadline for receiving a grade of "W" is March 31, 2017. If you withdraw by this deadline, you will receive a "W". If you do not withdraw by the deadline, you will receive a grade of A, B, C, D, or F based on your final average. If you do not show up for the final exam and have not withdrawn from the course, then you will receive a grade of "F" in the course. Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F."

EVALUATION:

Your grade for the course will be determined by grades on tests, quizzes, worksheets, and a comprehensive final exam.

Tests: There will be a total of 3 unit tests in the course. I do not allow makeup exams so be sure to be present for all scheduled tests. If you know you are going to miss an exam, please contact me before the exam for possible rescheduling of the exam. Each unit exam will count as 100 points towards your course grade. Test dates will be announced in class at least one week prior to the exam.

Worksheets: Worksheets, quizzes and other class activities will count as 100 points of your course grade. All assignments are due at the beginning of class. Worksheets may be handed in one day late for a maximum of half credit (unless reviewed in class). The lowest 2 of the grades (10 points each) will be dropped.

Final Exam: There will be a comprehensive final exam given at the end of the course on Monday, April 24th from 10am-12:30pm. The final will count as 100 points towards your grade. The final exam grade may also replace the grade of your lowest exam (or a missed exam).

Your grade will be calculated by using the following:

90% -100% "A". 80% -89% "B".
70% -79% "C". 60% -69% "D".
59% or less "F".

ACADEMIC HONESTY:

You are expected to do your own work on exams and other assignments. Providing information to another student or receiving information concerning exam content is considered cheating. The first instance of this will result in a grade of "0" for that exam or assignment. If you receive a 0 for cheating, that grade may not be replaced with the final exam (or dropped). The second instance will result in a grade of "F" for the courses.

Core Competencies Of A Valencia Graduate:

Valencia's Student Core Competencies are complex abilities that are essential to lifelong success. This course will help you to develop and demonstrate the abilities to:

- 1) THINK clearly, critically, and creatively;
- 2) COMMUNICATE with others verbally and in written form;
- 3) Make reasoned VALUE judgments and responsible commitments;
- 4) ACT purposefully, reflectively, and responsibly.

Due to the nature of these global competencies, many of the problems will be presented in the context of an application. These applications will require students to select appropriate information from the problem and communicate effectively in order to explain and/or describe how the student used the skills they are learning to arrive at an appropriate solution for the problem.

Expected Student Conduct:

Valencia College is dedicated not only to the advancement of knowledge and learning but is concerned with the development of responsible personal and social conduct. By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty to leave the class. Violation of any classroom or Valencia's rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

Valencia I.D. Cards:

Valencia ID cards are required for LRC, Testing Center, and IMC usage. No other form of ID at those locations will be accepted. Possession and utilization of a Valencia ID is mandatory in order to obtain these services. Some Valencia testing center locations may accept a driver's license as a photo ID but be sure to check with your testing center for the acceptable forms of ID.

LEARNING ASSISTANCE RESOURCES:

Free tutoring services are provided on Valencia College's East campus at the Academic Success Center in Building 4-Room 101. The East Campus Academic Success Center strives to provide a *safe, inclusive learning environment* that motivates students to *maximize learning opportunities, grow toward independence, and discover the lifelong learner within.* <http://valenciacollege.edu/east/academicsuccess/>

Math support at the academic success center

The Math Center in Building 4-Room 102-B provides individual assistance to all Valencia students enrolled in any math course. Resources include walk-in tutoring, homework assistance, workshops, final exam reviews, PERT information, academic refreshers, and much more. The SPA (Specialized Prep Area) provides specific resources to students in developmental mathematics courses. The SPA has information and study sheets for most mathematical concepts. Normal hours for the Math Center are Monday – Thursday from 8am-10pm, Friday from 8am-5pm, and on Saturday from 8am-4pm. Please check hours around holidays and special events and during the summer terms.

<http://valenciacollege.edu/east/academicsuccess/math/>

Valencia's Math Help 24/7: Valencia Math professors have created pen-casts and videos of common lessons to help you learn the concepts being presented in class. This resource is located at: www.valenciacollege.edu/math/liveScribe.cfm Click on your course to view your lessons. Some lessons have more than one professor's perspective; watch more than one!

Smart Thinking (Online Tutoring):

Smarthinking is a FREE online tutoring tool available to all of Valencia's students, and math tutors are available 24/7. Students can access Smarthinking through the Courses tab in Atlas. Students have an eight hour limit of usage per semester, and therefore Smarthinking is best used as a back up to on-campus services and support, not as a replacement. There are Smarthinking phone applications for both iOS and Android devices. <http://valenciacollege.edu/east/academicsuccess/onlineTutoring.cfm>

STUDENTS WITH DISABILITIES:

Valencia Students who qualify for academic accommodations must provide the professor with a Notification to Instructor (NTI) from the Office for Students with Disabilities (OSD). Students are expected to discuss their specific needs with the professor, preferably during the first two weeks of class. OSD determines accommodations based on appropriate documentation of disabilities.

Contact Information: Bldg.: 5-216; Ph: 407-582-2229; Fax: 407-582-8908; TTY: 407-582-1222. <http://valenciacollege.edu/osd/default.cfm>

STUDENT FEEDBACK ON INSTRUCTION:

Near the end of the term, students will receive an invitation through their Valencia ATLAS email account asking them to complete the Student Feedback on Instruction (SFI). This survey provides Valencia College professors with feedback on students' experiences in courses and helps them to continually improve their courses. The results are released only *after* grades are submitted and students' names are *not* included in the results - all responses will be anonymous.

STUDENT ASSISTANCE PROGRAM:

Valencia College has contracted with a private and confidential counseling service (**Bay Care Behavioral Health Student Assistance Program (SAP)**) to provide FREE short-term assistance to students who need to resolve problems that are affecting their college performance. Examples might include: stress, relationship/family issues, alcohol/drug problems, eating disorders, depression, and gender issues. Students who are experiencing any of these issues and who are enrolled in credit classes at Valencia should call the toll-free number 1-800-878-5470 to speak to a professional counselor. If needed, the counselor may refer the student to appropriate resources or to speak face-to-face with a licensed counselor. For more information, call or visit a Counselor in Student Services on any campus.

TITLE IX

Valencia College strives to be a place free from all forms of discrimination. Title IX protects students from discrimination based upon sex including protections against sexual violence, domestic violence, and stalking. This also includes protections for students who are pregnant or may become pregnant. If you experience sexual violence, domestic violence or stalking and would like assistance there are several options available to you. Valencia partners with the Victim Service Center of Central Florida which is a confidential resource available 24/7. They can be reached by calling 407-497-6701. If you would like assistance on campus, you can go to valenciacollege.edu/eo or contact Valencia College's Title IX and Equal Opportunity Officer, Ryan Kane, by emailing rkane8@valenciacollege.edu. If you would like to report to law enforcement, you may visit Campus Security or call 911.

Please note that there are no confidential resources on campus. As your professor, I am required to report any information mentioned in this statement to the appropriate campus resources. This will include your name, and detailed information shared with me. We take privacy very seriously at the College and only those who have a legitimate need to know the information will be provided with this information.

If you have more questions about Title IX or the College's response, please visit valenciacollege.edu/eo.

DISCLAIMER

Changes in the syllabus, schedule, evaluation procedures, and/or homework assignments may be made at any time at the discretion of the professor. If you are absent, it is **your** responsibility to find out what, if any, announcements or changes have been made.

FERPA is a Federal law that is administered by the Family Policy Compliance Office (Office) in the U.S. Department of Education (Department). 20 U.S.C. § 1232g; 34 CFR Part 99. FERPA affords students certain rights with respect to their educational records. Valencia College has a firm commitment to protecting the privacy rights of its students. For further information on FERPA see: <http://valenciacollege.edu/ferpa/default.cfm#whatis>

Disclaimer: Changes in the evaluation procedure may be made at the discretion of the instructor.