

MAP 2302: Differential Equations

Summer 2017

INSTRUCTOR: Sidra Van De Car

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OFFICE: 6-227

**STUDENT
ENGAGEMENT
HOURS:** MW 8:00A – 9:00A and 1:15P – 2:45P in 6-227
TR 8:00A – 9:30A in 6-227
Su 7:00P – 9:00P via e-mail

This syllabus is a contract between the student and the instructor. By enrolling in and then attending this course, the student agrees to and accepts the terms and conditions of this contract. It is the responsibility of the student to carefully read this syllabus/contract in its entirety and to adhere to all policies and procedures within the syllabus.

COURSE INFO: CRN: 30367 meets on MW from 11:30A – 1:05P in 8-242.

DESCRIPTION: Introduction to methods and applications of ordinary differential equations. Topics include first order differential equations and applications; higher order linear differential equations with applications; Laplace transforms; introduction to numerical methods. Gordon Rule course. Minimum grade of C required if MAP 2302 is used to satisfy Gordon Rule and general education requirements.

PREREQUISITES: Minimum grade of C in MAC 2313 or department approval.

REQUIRED TEXT: *Schaum's Outline of Differential Equations*, 4th Edition, © 2014, by Bronson & Costa

**RECOMMENDED
TEXT:** *A First Course in Differential Equations* by Dennis Zill, any edition.

**REQUIRED
MATERIALS:** Graphing Calculator ([TI-83](#), [TI-89](#), or [TI-92](#) recommended). The TI-89 will be the modeled demonstrated in class. If a student chooses to use a calculator other than the TI-89, he will be responsible for learning how to use his calculator. The student is not permitted to store information or unapproved programs in his calculator. The instructor reserves the right to inspect and/or reset the memory of each student's calculator. Any student found with inappropriate information stored in the calculator will be subject to action described by the instructor's policy on academic honesty (see below).

ATTENDANCE: Attendance will be taken at every class meeting. If a student should need to miss class, he should contact the instructor as soon as possible. It is the student's responsibility to find out what material and assignments were missed due to an absence.

EXAMS: There will be 3 exams. Each exam is worth 25% of the final course grade. There will be no make-up exams during the semester unless the absence is excused by college policy (e.g., religious holidays or college sponsored events requiring a student's attendance). The instructor has the right to ask for documentation to determine whether an absence is excused.

Most exams will consist of 2 parts. For this format, calculators will not be permitted on the first part of the exam and will be permitted on the second part.

ATLAS: Students should familiarize themselves with their individual [ATLAS](#) accounts. Throughout the semester, the instructor may send e-mail pertaining to the course through the ATLAS system. The student is responsible for checking his ATLAS e-mail account regularly.

HOMEWORK: Homework will be assigned at each class meeting. The student is expected to attempt every problem before coming to class.

QUIZZES: There will be unannounced quizzes throughout the semester that will account for 25% of the student's final grade. In class quizzes may be given during the first 5 minutes of class. There will be NO make-up quizzes. If the student arrives late to class or is absent, a grade of zero will be recorded for the quiz.

**WITHDRAWAL
DEADLINE:**

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline of **July 07, 2017** will receive a grade of "W." A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of "W." 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." For a complete policy and procedure overview on Valencia Policy 4-07 please go to: <http://valenciacollege.edu/generalcounsel/policydetail.cfm?RecordID=75>.

GRADING:

3 Exams	75%
Quizzes	25%

Percentage	Grade Earned
90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

EXTRA HELP: Besides visiting your instructor's office to ask questions, *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: <http://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>

Student Assistance Programs: 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.

CELL PHONES:

Students are required to turn off all cell phones and pagers before the beginning of class. If a cell phone or pager vibrates or is audible, the student may be asked to turn it off or leave for the remainder of the class. If there is an emergency situation warranting the use of a cell phone or pager during class time, the student must notify the professor in writing prior to the beginning of class. **During a testing situation, if a cell phone or pager vibrates or is audible, the student's quiz, test, or examination may be collected and the student may be asked to leave without an option for completion.**

ACADEMIC HONESTY:

All forms of academic dishonesty are prohibited at Valencia. Academic dishonesty includes, but is not limited to, plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a testing situation, and misuse of identification with intent to defraud or deceive. **Sanctions available to the professor should a violation occur are described in the Valencia Student Handbook or online at <http://valencia.cc.fl.us/policies/PDF/10-16.pdf>.**

STUDENT CODE OF CLASSROOM CONDUCT:

Valencia 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, 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 professor. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the professor to leave the class. Violation of any Valencia policies/procedures or classroom rules may lead to disciplinary action up to and including expulsion from the College. Disciplinary action could include being withdrawn from the class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. **Valencia's Student Code of Classroom Conduct (Policy 10-18) can be found in the current Student handbook, or online at <http://valencia.cc.fl.us/policies/PDF/10-18.pdf>.** Additional information is available in the College Catalog (<http://valenciacc.edu/catalog/04-05/default.htm> on page 65 - 66).

VALENCIA CORE COMPETENCIES:

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.

STUDENTS WITH DISABILITIES:

Students with disabilities who qualify for academic accommodations must provide a notification from the [Office for Students with Disabilities](#) (OSD) and discuss specific needs with the instructor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. The East Campus Office is located in Building 5, Room 216, Ph: 407-582-2229, Fax: 407-582-8908, TTY: 407-582-1222

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.

FERPA (*Family Educational Rights and Privacy Act*):

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>

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.

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.

ADDENDA:

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. Material generated by the instructor (including lectures and printed material) is protected under the intellectual copyright laws of the United States. No reproduction of such materials may be made without the explicit permission of the instructor (including audio or video taping of the lectures).