

VALENCIA COLLEGE
MAC 2312 – CALCULUS WITH ANALYTIC GEOMETRY II
COURSE SYLLABUS
SUMMER FULL TERM 2012

Course: MAC 2312 Calculus with Analytic Geometry II (CRN: 31368)

Professor: Kurt Overhiser

Office: East Campus Building 8 - Room 206

Phone: 407-582-2481

E-mail: koverhiser@valenciacollege.edu

Student Engagement Hours:

Summer A (May 7 to June 18)

Monday – Thursday 4:15 p.m. to 6:15 p.m.

Friday 8:00 a.m. to 10:00 a.m. via cell phone (407-325-8292)

Summer B (June 19 to July 31)

Monday – Thursday 8:30 a.m. to 9:30 a.m. AND 2:45 p.m. to 3:45 p.m.

Friday 8:00 a.m. to 10:00 a.m. via cell phone (407-325-8292)

Catalog Course Description: MAC 2312 is a five-credit mathematics course. The prerequisite for this course is MAC 2311 with a grade of 'C' or higher. Topics in this course include differentiation and integration of exponential, logarithmic, and other transcendental functions, techniques of integration, indeterminate forms, conic sections, sequences, and infinite series. A minimum grade of 'C' is required if MAC 2312 is used to satisfy Gordon Rule and/or general education requirements.

Learning Outcomes: This course will enable a student to achieve the following learning outcomes:

- 1) Demonstrate an understanding of differentiation and its applications.
- 2) Demonstrate an understanding of integration and its applications.
- 3) Demonstrate an understanding of sequences and series.

Required Materials:

1. *Single Variable Calculus 7th edition* by James Stewart

2. A Graphing Calculator (the instructor will be using the TI-84 PLUS for classroom demonstration)

Note: Any calculator with a built-in C.A.S. such as the TI-89 or TI-92 may not be used on in class tests.

Optional Materials: Student Solutions Manual

Homework: There will be homework assignments (both textbook and non-textbook) assigned throughout the semester. The homework problems are taken from the textbook and will be posted regularly on the website <http://faculty.valenciacollege.edu/koverhiser/>. There will be time allotted at the beginning of each class to go over selected textbook homework problems. The homework grade for this course will be earned through the completion of non-textbook homework assignments. These assignments are to be done individually and are based on a series of ten worksheets that you will complete throughout the course. These worksheets along with their respective due dates are listed in a separate document. I do not accept late homework assignments. Any collected homework assignments with answers that are not supported with work and required steps will not receive full credit. Each homework assignment is graded individually on a point scale of 1-10. The overall homework grade will be computed by adding up the

scores for each of the ten homework assignments. The key for success in this course is to do the homework. If you are having trouble with the material, be sure to seek help as soon as possible.

Examinations: There will be FOUR in-class tests and a comprehensive final exam. Because mathematics builds upon itself, some of the content from exam to exam may be cumulative. Many of the exam questions are similar to homework problems, examples in the book and/or examples worked in class. Test dates and the sections that are to be tested are found in the accompanying course calendar. Not taking the final exam will automatically result in a zero percent grade for the exam.

Makeup Policy for Exams: No makeup exams are available without the explicit consent of the professor, which will only be granted in certain cases per Valencia policy. All exams must be taken on or before the dates assigned in the course calendar. If you are unable to take an in-class exam due to a medical emergency, legal situation, or death in the family then the final exam score may replace ONE missed exam once appropriate documentation is received by the professor. Missing more than one exam will result in a zero percent grade for that test.

Final Exam Date and Time:

The final exam will be given in two parts and held on Monday July 30, 2012 and Tuesday July 31, 2012 in our regularly scheduled classroom and at our regular time.

Course Grade and Evaluation: Each of the four in-class exams is worth 15% of the final grade. The Final Exam is worth 20% of the final grade. The overall homework grade is also worth 20% of the final grade. Grades will be assigned according to the rule: 90-100 is an A, 80-89 is a B, 70-79 is a C, 55-69 is a D, and below 55 is an F.

Tutoring: The Math Support Center provides free walk-by tutoring on a first come first serve basis. This center is located in building 4 inside the Academic Success Center (ASC) on the first floor. The ASC has limited tutoring hours. See the posted hours outside for more details.

College Withdrawal Policy: A student who withdraws from class on or before the withdrawal deadline of Friday June 29, 2012 will receive a grade of 'W'. A student is not permitted to withdraw after this deadline. If you wish to withdraw from the course, please do so through ATLAS by the withdrawal deadline. Students who do not withdraw themselves prior to the withdrawal deadline will be assigned whatever grade (A–F) was earned for the course as their final grade. 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'. More information is available in the 2011-2012 College Catalog on pages 93 - 94.

Attendance Policy: Regular attendance and class participation are significant factors that promote student success in this course. Attendance is mandatory and expected of all students except in emergencies and will be taken at the beginning of each class. If you are not present at the time roll is taken you will be marked absent. You should be on time to each class, complete all assignments and remain in class for the entire time unless prior permission has been given by the professor to leave early. Regardless of being absent or not, students are responsible for all information covered and all announcements made in class. I do not withdraw students from class for lack of attendance at any time during the semester.

Valencia Student Core Competencies: Valencia faculty members have defined four interrelating competencies (Think, Value, Communicate, Act) that prepare students to succeed in the world community. These competencies are outlined in the 2011-2012 College Catalog on page 18. In this course, you will further your mastery of these core competencies through classroom lecture and discussion, group work, and other learning activities.

Academic Dishonesty: 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. Students who engage in any prohibited or unlawful acts that results in disruptive behavior may be directed by the professor to leave the class. Violation of any Valencia policies or procedures or classroom rules may lead to disciplinary action up to and including expulsion from the College. Disciplinary action may include being withdrawn from the class, probation, suspension, expulsion, or other appropriate and authorized actions. Valencia's Student Code of Classroom Conduct 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 2011-2012 College Catalog on pages 95-96.

Students with Disabilities: Students with disabilities who qualify for academic accommodations may provide the professor a notification letter 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.

Student Assistance Program: Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.

Cell Phones: Please turn off your cell phones during class. NO texting during class time.

Valencia ID cards: Valencia ID cards are required for the Library, Testing Center, and other on campus services. No other forms of ID at those locations will be accepted and having a Valencia ID is mandatory to obtain those services. You may obtain a Valencia ID on the 2nd floor of building 5 on the East Campus.

E-mail Communication: Where appropriate, I will communicate with you through ATLAS email. Please check your ATLAS account regularly. If you need to contact me, please take a moment or two and login to ATLAS and send me an email through that portal. Due to SPAM filters, I might not receive emails from 'outside' email accounts.

Disclaimer: Changes to the syllabus, grading procedure, course calendar, and homework assignments may be made at any time at the discretion of the professor.