

VALENCIA COMMUNITY COLLEGE  
MAC 2311 - CALCULUS WITH ANALYTIC GEOMETRY ONE  
COURSE SYLLABUS  
SPRING TERM 2009

**Course:** MAC 2311 Calculus with Analytic Geometry One (CRN: 21023 and 25996)

**Professor:** Kurt Overhiser

**Office:** East Campus Building 8 - Room 206

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**Student Engagement Hours:**

Monday 10:30 a.m. – 11:15 a.m. AND 2:30 p.m. – 3:45 p.m.  
Tuesday 7:45 a.m. – 9:45 a.m.  
Wednesday 10:30 a.m. – 11:15 a.m. AND 2:30 p.m. – 3:45 p.m.  
Thursday 7:45 a.m. – 9:45 a.m.  
Friday 8:00 a.m. – 10:00 a.m. via cell phone (407-267-1882)

**Catalog Course Description:** MAC 2311 is a five-credit mathematics course. The prerequisite for this course is (MAC 1140 and MAC 1114) or (MAC 1147) with a minimum grade of a 'C' for each of these courses. An appropriate score on an approved assessment such as the CPT can also satisfy this requirement. Topics in this course include limits and continuity as well as differentiation of algebraic and trigonometric functions and an introduction to integration. Applications of the derivative, definite and indefinite integrals will also be included. This is a Gordon Rule course. A minimum grade of C is required if MAC 2311 is used to satisfy Gordon Rule and general education requirements.

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

- 1) Demonstrate an understanding of the limiting process as it applies to functions, continuity, derivatives and integrals.
- 2) Demonstrate an understanding of the concept of derivative including its geometric and physical interpretations.
- 3) Calculate derivatives of functions using rules of differentiation.
- 4) Demonstrate an understanding of the concept of integral including its geometric and physical interpretations.
- 5) Calculate indefinite and definite integrals.
- 6) Solve applied problems using derivatives and integrals.

**Required Materials:**

1. *Calculus-Single Variable 6<sup>th</sup> edition* by James Stewart
2. Calculus I Problems Packet
3. 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

**Attendance:** Regular attendance and class participation are significant factors that promote student success in this course. Attendance is required and will be taken at the beginning of each class. During those days when a student is absent, he or she is responsible for all material covered that day and for any in-class announcements. There will be no excused absences. Missing more than five classes for any

reason is excessive and a basis for withdrawal. There will be no excused absences. If you arrive late or leave early, it is courteous to speak privately with the instructor about your reasons for doing so. Each tardy will count as a half absence.

**Homework:** The homework assignments (both textbook and non-textbook) for this course will be posted regularly on my website and can be found at <http://faculty.valenciacc.edu/koverhiser/>. You are expected to read the textbook and review your notes as you do the assigned homework. There will be time allotted at the beginning of each class to go over selected textbook homework problems. The key for success in this course is to do the homework. If you are having trouble with the material, be sure to obtain help as soon as possible. There will be a homework grade for this course. This grade will come from two sources. The first source will be the non-textbook homework assignments as posted on the 'Class Announcement' and 'Class Handout' links found on the website. The second source will be problems from the Calculus I Problems Packet. See the 'Required Materials' section above. Any collected homework assignments with answers that are not supported with work and required steps will not receive full credit. Individual homework assignments will be graded on a point scale of 1-10. The final homework grade will be computed as a percentage of the total number of all homework points.

**Examinations:** There will be FOUR in-class exams and a comprehensive final. 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. Exam dates and the sections that are to be tested will be announced in class at least one week in advance. Not taking the final exam will automatically result in a final course grade of 'F'.

**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 VCC policy. All exams must be taken on or before the dates assigned. If you are unable to take an exam due to a medical emergency, legal situation, or death in the family then the final exam score may replace ONE missed exam once documentation is received by the professor. Missing more than one exam is considered falling behind in work and is a basis for withdrawal.

**Final Exam Dates and Times:** You must attend the final exam for the CRN that you are assigned. Final exams are held in the regularly scheduled classroom.

The final exam for CRN: 21023 will be held on Wednesday April 29, 2009 from 10:00 a.m. – 12:30 p.m.  
The final exam for CRN: 25996 will be held on Monday April 27, 2009 from 5:00 p.m. – 7:30 p.m.

**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:** The College has initiated withdrawal procedures and timelines in response to laws/rules adopted by the state legislature and State Board of Community Colleges. The Withdrawal Deadline for this semester is Friday March 20, 2009. If you withdraw or are withdrawn from the course after this deadline, you will be assigned either a WP (withdrawn passing) or a WF (withdrawn failing) based on the work you complete up to that point. It is not the responsibility of the instructor to withdraw a student from class. It is up to the student to make the decision and to take the action to withdraw from class. More information is available in the 2008-2009 College Catalog on pages 72-74.

**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 2008-2009 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.

**CLAST Competencies:** The College-Level Academic Skills Test (CLAST) measures the following: reading skills, essay skill, English language skills, and mathematics skills. To the extent possible, you will be encouraged to develop these skills as part of your work in this course. More information on the CLAST test can be found in the 2008-2009 College Catalog on pages 87 - 89.

**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 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 2008-2009 College Catalog on pages 75-76.

**Students with Disabilities:** Students with disabilities who qualify for academic accommodations may provide the instructor 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.

**Valencia ID cards:** Valencia ID cards are required for the Library, Testing Center, and other on campus services. No other form 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 2<sup>nd</sup> floor of building 5 on the East Campus.

**E-mail Notification:** I will communicate through ATLAS. Please check your ATLAS account regularly.

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