

VALENCIA COMMUNITY COLLEGE
MAC 1105 - COLLEGE ALGEBRA
COURSE SYLLABUS
SUMMER A TERM 2009

Course: MAC 1105 College Algebra (CRN: 31499 AND 31500)

Professor: Kurt Overhiser

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Student Engagement Hours:

Monday	6:30 p.m. – 8:30 p.m.
Tuesday	6:30 p.m. – 8:30 p.m.
Wednesday	6:30 p.m. – 8:30 p.m.
Thursday	6:30 p.m. – 8:30 p.m.
Friday	8:00 a.m. – 10:00 a.m. via cell phone (407-267-1882)

Catalog Course Description: The prerequisite for this course is MAT 0025C or MAT 1033C with a grade of 'C' or better. An appropriate score on an approved assessment test can also satisfy this requirement. College Algebra is a three credit course that is based on the study of functions and their role in problem solving. Topics include graphing, the linear, quadratic, and exponential families of functions, and inverse functions. Students will be required to solve applied problems and communicate their findings effectively. Technology tools will be utilized in addition to analytical methods. A minimum grade of 'C' is required to use this course to satisfy Gordon Rule and general education requirements.

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

- 1) Read and comprehend quantitative information describing real world situations at the college algebra level.
- 2) Use algebra to model real world situations.
- 3) Recognize the mathematical function concept and describe relationships between variables in real world situations. Use functions expressed verbally, numerically, graphically, and symbolically.
- 4) Given the graph of a function, write its algebraic equation. Given an algebraic equation of a function, graph the function or a transformation of the function.
- 5) Recognize, model, and analyze linear functions in real world situations.
- 6) Recognize, model, and analyze quadratic functions in real world situations.
- 7) Recognize, model, and analyze exponential and logarithmic functions in real world situations.
- 8) Given several concurrent quantitative conditions, express each condition algebraically, and find all possible solutions of the resulting system.

Required Materials:

1. *Modeling, Functions, and Graphs-Algebra for College Students, 4th ed.* By Yoshiwara & Yoshiwara
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

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. Missing more than four classes for any reason is excessive and a basis for withdrawal. 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 are taken from your textbook and can be found on my website at <http://faculty.valenciac.edu/koverhiser/>. You are expected to read the textbook and review your notes as you do the assigned homework. Please complete all your homework on loose leaf paper and keep all your homework in a three ring binder. I will collect your homework for a grade on test days. Each of your homework assignments will be computed using the following breakout: Complete = 100% , Mostly Complete = 80% , Not Complete = 50%. There will be four sets of homework assignments. Collected homework assignments with answers that are not supported with work and required steps will not be considered complete. There will be time allotted at the beginning of class to go over selected 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 seek help.

Examinations: There will be THREE in-class exams and a comprehensive final exam. Because math is a subject that builds upon itself, some 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 Date and Time: The Final Exam will be held during the last two class periods on June 18 and June 22, 2009 in our regularly scheduled classroom.

Course Grade and Evaluation: Each of the three in-class exams is worth 20% of the final grade. The Final Exam will count for 30% of the final grade. The overall homework grade is worth 10% 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 June 5, 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 that 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 2nd 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.