

INTENSIVE ALGEBRA

Course Syllabus – Spring 2017

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Student Engagement Hours: MW 1-2pm, TR 9-11:15am

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COURSE DESCRIPTION:

MAT 1033C Intermediate Algebra

Prerequisite: MAT 0022C with a grade of "C" or better or MAT 0028C with a grade of C or better or an appropriate score on entry placement test. Topics include linear equations and inequalities in two variables and their graphs, systems of linear equations and inequalities, introduction to functions, factoring, algebraic fractions, rational equations, radicals and rational exponents, complex numbers, quadratic equations, scientific notation, applications of the above topics and the communication of mathematics. Applications emphasizing connections with other disciplines and the real world will be included.

MAC 1105 College Algebra

Course based on the study of functions and their role in problem solving. Topics will 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.

COURSE DESCRIPTION:

This course is a combination of Intermediate Algebra and College Algebra. It is an algebra course that will help you acquire the necessary skills to model problems using algebraic techniques. You will also learn to use graphing technology to solve more realistic problems that can not be easily solved by algebraic techniques. The concept of a function will be emphasized throughout the course to prepare you for your future mathematics courses.

REQUIRED COURSE MATERIALS:

Text: Materials are provided in PDF format on <http://frontdoor.valenciacollege.edu/?jrhodes>

Calculator: A graphing calculator is required for this course (the instructor will be using a TI-84 plus for classroom demonstration). Graphing calculators may not have symbolic manipulators such as the TI-89.

Lab Manual: Provided.

ACADEMIC SUPPORT CENTER:

A limited number of TI-84 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. Attendance in lab is mandatory. If due to an emergency you must miss class or lab, 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. Homework will be collected on a random basis throughout the course. 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."

You may choose at the end of the term to attempt to pass just MAT1033 by taking the final exam for that course. If you choose this option, you must inform the instructor before the last day of regular classes and you will receive a grade of "W" for MAC1105 and the grade earned for MAT1033.

EVALUATION:

You will receive a grade in both Intermediate Algebra and College Algebra at the end of the term. Your grade for both courses will be the same (see exceptions below) and is determined by grades on tests, lab work, worksheets/homework, and a comprehensive final exam.

Tests: There will be a total of 7 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.

Lab Work: You will receive a grade for your work in lab. Some of these may be group exercises. There will be no makeup assignments. The lowest 2 (10 point) lab activities will be dropped before calculating your lab average to account for illness and emergencies. This will count as 100 points towards your grade.

Worksheets: Worksheets, quizzes, homework and other class activities will count as 150 points towards your 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 3 (10 point) grades will be dropped before calculating your average.

Project: There will be a group project in which the group will provide a review activity for one test in the course. A rubric will be provided. The project will be worth 50 points towards your grade.

Final Exam: There will be a comprehensive final exam given at the end of the course on Wednesday, April 26 from 10am-12:30pm. The final will count as 200 points towards your grade. The final exam grade may also replace your lowest exam grade or one missed exam.

Grade Calculation for each course:

Unit Tests:	700 points
Lab Activities:	100 points
Worksheets/Quizzes:	150 points
Project:	50 points
Final Exam:	200 points

Your grade will be calculated by using the following:

A : 90 – 100% B : 80 – 89% C : 70 – 79% D : 60 – 69% F: below 60%

Exceptions to the above:

If your final average in the two courses is between 65 and 69.5%, then you will receive a C in MAT1033 and a D in MAC1105.

If your final average in the two courses is between 78-79.5%, then you will receive a B in MAT1033 and a C in MAC1105.

If your final average in the two courses is between 88-89.5%, then you will receive a A in MAT1033 and a B in MAC1105.

If you choose to take a W in MAC1105 in College Algebra, the grade in MAT1033 will be based on tests 1, 2, 4, 6, and 7, worksheets, labs, the project, and an Intermediate Algebra final exam. This option must be chosen before the end of regular classes.

Academic Honesty: You are expected to do your own work on exams. 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 dropped or replaced with the final exam. The second instance will result in a grade of "F" for the course. Cheating on the final exam will result in a course grade of F.

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.

SL ADDENDUM: This course is enhanced by Supplemental Learning {SL}. SL classes are supported by small group sessions led by Supplemental Learning Leaders (former students) who are selected because they demonstrate effective study habits and passed the course with a high grade. These study sessions are regularly scheduled, casual sessions in which students from your class compare notes, discuss assignments, and develop organizational tools and study skills. Students who participate in these sessions make better grades in the course.

LAB ADDENDUM

This course includes a mandatory lab component that occurs once each week in Building 7, Room 112 (students should refer to their class schedules for details). Each lab session will be conducted by an instructional assistant and will include an activity chosen by the course instructor.

Lab activities are designed to supplement and reinforce students' understanding of the course concepts and provide students opportunities to develop their skills. In addition to being mandatory, attendance and participation in lab activities correspond to improved performance in the course, so it is in students' best interests to treat the labs just as seriously as they regard the lectures.

While in lab, students are expected to:

- abide by Valencia's student code of conduct policy.
<http://valenciacollege.edu/generalcounsel/policy/documents/Volume8/8-03-Student-Code-of-Conduct.pdf>
- adhere to Valencia's integrity policy.
<http://valenciacollege.edu/generalcounsel/policy/documents/8-11-NF-NN-Academic-Dishonesty.pdf>
- bring all textbooks, lab manuals (if provided), writing utensils, paper, and any other materials necessary to the course, including their student identification cards to allow for attendance verification and equipment check out.
- make appropriate use of any available lab equipment.
- participate in lab activities for the entire duration of the lab.
- refrain from eating, drinking, or chewing gum.
- use cell phones only within the learning environment and only when permitted by the course or lab instructor.
- maintain an appropriate volume of voice and respect for the learning environment since lab sessions may be occurring simultaneously in the lab area.
- treat classmates, instructional assistants, faculty members, supplemental-learning leaders, and anyone else in the lab area in a professional, respectful, and civil manner.
- follow all instructions from the instructional assistants and lab aides.

Students can expect the lab staff (instructional assistants and senior instructional assistants) to provide:

- clear instructions for all lab activities.
- respectful and professional assistance with all lab activities.
- assistance with specialized equipment or materials necessary for lab activities.
- a safe environment in which to learn.

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>