

MAT1033C Intermediate Algebra
Fall 2017
CRN 13378

<u>Meeting Type</u>	<u>Day of the Week</u>	<u>Meeting Times</u>	<u>Room Locations</u>
Class Sessions	Mon. & Wed.	11:30-12:45 PM	East Campus 7-123
Lab Sessions	Monday	1:00-1:50 PM	East Campus 7-112D

Instructor Information:

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Math Department Information:

Office: East 7-142
Phone: (407) 299-5000 x-2366

Student Engagement Hours by Appointment Only

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 Description:

INTERMEDIATE ALGEBRA

Prerequisites: Minimum grade of C in MAT0022C or MAT0028C or MAT0055C or MAT0056C or appropriate score on an approved assessment.

Intermediate Algebra presents algebraic skills for MAC 1105. 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. (Special fee: \$42.00)
 Contact hour breakdown: CR3 Class 3 Lab 1

Valencia Core Competencies:

Valencia desires their graduates to possess and demonstrate a set of global competencies including the ability to think, communicate, value and act. In an effort to help you acquire and improve upon your ability to demonstrate these competencies this course will include activities that require you to:

1. Think clearly, critically and creatively.
2. Communicate with others in written and verbal form.
3. Make reasoned value judgments and responsible commitments.
4. Act purposefully, reflectively and responsibly.

Due to the nature of these global competencies many problems and activities will be presented in the context of an application. These applications will require students to select appropriate information from the problem and communicate effectively how to arrive at an appropriate solution for the problem.

Success is the sum of small efforts, repeated day in and day out.

Robert Collier

Required Materials:

ACCESS TO MYMATHLAB: Full access to MyMathLab must be purchased from the East Campus bookstore or directly from mymathlab.com. (ISBN 9781269446365)

CALCULATOR: A graphing calculator is **required** for this course. The **TI-84** will be used for all classroom demonstrations. If you choose a different brand or model, you are responsible for learning the appropriate calculator syntax. Calculators can be checked out for 4 hours from the information desk in building 4. A few calculators are also available to be checked out for the semester from the math department in building 7, room 142. Go early if you are interested!

Optional Material:

TEXT: *Intermediate Algebra with Applications & Visualization, 5th Edition* by Gary Rockswold and Terry Krieger. (ISBN 9780134442327)

MAJOR LEARNING OUTCOMES:

At the end of this course, you should be able to:

- use the graphing calculator to enhance and visualize mathematical concepts.
- use algebraic properties to write expressions in equivalent forms.
- solve algebraic statements.
- demonstrate an understanding of relations and functions.
- read in a mathematical context.
- demonstrate appropriate college readiness skills.

Tips for Success and Best Practices:

- Form a study group with your classmates. Multiple research studies have found that students can increase their success by working with their peers. In your study group, you can review notes from class, work together on textbook problems, and help one another with homework. (Note: helping on homework assignments is NOT considered cheating as long as each student is doing his/her own work. It is cheating when a student copies the work or answer from a classmate.) I encourage you to help one another throughout this semester.
- After class sessions, review your notes and rework the examples provided in class.

What to do when you need help:

- Reach out to your classmates or study group for help.
- Read the textbook (**really**). The text is well written and has many examples for you to follow.
- **Contact your instructor!** I am available by email.
- **Meet with a free tutor** at the Academic Success Center (East 4-101)
- **Visit** the SPA for one-on-one help (East 4-102)

Do not wait to get help! See page 5 of this syllabus for more information about available (and free!) resources to help you be successful in this math class.

CLASS POLICIES

Electronic Communication: Please note that all electronic communications are done through Atlas. Be sure to check your email before each class. The best means of contacting me is by email cgillespie10@valenciacollege.edu. I will not be checking email in MyMathLab or Blackboard regularly.

- Outside of class, email will be our primary means of communication. Please email me as you have questions in this course. I am here to help you!
- I will do my best to respond to all e-mail communications within 24 hours. If I have not responded to an e-mail message within 24 hours, please reach out to me again.

Preparation: Please be prepared for each class meeting by completing any homework from previous sections and reading the upcoming section(s) in the textbook.

Attendance: Attendance is required at your assigned class and lab time. Being late to class or leaving early is a disruption to the class and is discourteous to the professor and the other students. You should be on time to each class and lab, complete all assignments, and remain in class for the entire time unless prior permission has been given by the instructor to leave early. In the event of an absence, you are responsible for all information presented and announcements made during the missed class. In-class activities or quizzes may not be announced in ahead of time and CANNOT be “made-up.” **You will receive a written warning, via ATLAS, after your third absence. If you miss a fourth class meeting, you may be withdrawn from the class.**

Expected Conduct: We all share the same goal in this classroom – the successful completion of MAT 1033. To support a learning-conducive environment, disruptive activities (such as side conversations or disrespectful comments) will not be tolerated. Students engaging in disruptive behaviors may be asked to leave the classroom and marked absent for that class period.

In addition, violation of any classroom or any of 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.

Cell Phones and Other Communication Devices: Electronic devices should be set such that they do not make noise or distracting visual signals. Ringing, beeping, flashing lights, and text messaging are disruptive to the learning environment. If you are using your electronic device during class, you may be asked to leave the class, marked absent for that class period, and you will not be allowed to make-up any activities from that class session.

Withdrawal: WITHDRAWAL Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline of November 10. 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>

Evaluation & Grading

Your grade for this course will be determined by grades on tests, lab work, homework & a comprehensive final.

Tests: There will be three (3) unit tests. Tests will be announced in advance. **All tests must be taken on or before dates assigned. No makeup tests are available without explicit consent of the instructor which will only be granted in case of documented extreme emergency. The final exam must be taken on the date published for final exams.**

****BONUS Opportunity****

By completing the Academic Refresher Modules in IMATHAS <http://imathas.valenciacollege.edu/>, you will review foundational content for this course and have the opportunity to earn bonus points on select tests. See the last page of the syllabus for more information.

Quizzes: There are 3 scheduled online quizzes within Mymathlab. Quizzes must be completed by midnight on the assigned due date or you will receive a grade of zero. You have 2 attempts at each online quiz. Additionally, there may be unannounced quizzes during class. No make up quizzes will be available.

Lab Work: Each Lab activity will receive a grade. Some of these activities may be group activities. Points will be deducted for arriving late, leaving early, and for not participating fully. Cell phones are NOT permitted to be out during lab. **No makeup labs will be available. I will drop the lowest lab at the end of the semester. On your lab day, you also have class.**

Homework: Most homework will be completed in mymathlab. **Mymathlab homework will be due each Sunday at midnight.** You may attempt each problem 10 times without penalty for wrong submissions. I will provide the link for the NSF Activities which must be completed by the announced due dates.

Final Exam: There will be a **comprehensive** final exam given at the end of the course during the assigned final exam period. **Failure to take the final exam will result in a grade of zero on the final. The final exam must be taken on the date published for final exams. The final exam will be held on Wednesday, December 13.**

Grade Calculation:

Tests:	60%
Quizzes/Labs	10%
Homework:	15%
Final Exam:	15%

Your final grade will be calculated as follows:

- A: 90 and up
- B: 80-89
- C: 70-79
- D: 60-69**
- F: 59 and below**

**These grades will require you to repeat MAT1033C before moving on in math.

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.

Academic Honesty: You are expected to be in compliance with Valencia College's policies on academic honesty. This includes doing your own work on exams and assignments. Providing information to another student or receiving information concerning exam content is considered cheating. There are many other forms of academic dishonesty as well that will be addressed on a case-by-case basis. The professor reserves the right to determine the appropriate penalties within Valencia College's academic honesty policies. These penalties may include (but are not limited to) receiving a grade of zero on the specific assignment/test and a drop of one letter grade in the class.

EAST CAMPUS LEARNING ASSISTANCE RESOURCES:

Free Tutoring

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- 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 and is part of the Math Center. 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 lessons. Some lessons have more than one professor's perspective; watch more than one!

Smart Thinking (Online Tutoring):

Smarterthinking is a FREE online tutoring tool available to all of Valencia's students, and math tutors are available 24/7. Students can access Smarterthinking through the Courses tab in Atlas. Students have an eight hour limit of usage per semester, and therefore Smarterthinking is best used as a back up to on-campus services and support, not as a replacement. There are Smarterthinking 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.

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.

Research – NSF Activities

I am continually exploring new possibilities that might enhance your learning experience in this course. Throughout the course, there will be four activities worth a small part of your grade. I am collaborating with other math professors at Valencia as well as researchers from the University of Virginia in this research project to improve student learning in our front door courses. These activities are designed to help us understand your attitudes in an effort to assist us on improving future classes for you and other students.

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, writing utensils, paper, and any other materials necessary to the course, including their student identification cards to allow for check out of lab equipment.
- 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.
- turn off cell phones and other personal electronic devices and place them out of sight (unless permitted by their course instructor).
- maintain an appropriate volume of voice and respect for the learning environment. Several 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.

Side-Note from the Instructor: I believe that a key to being successful in mathematics is learning from one's mistakes. Most likely, you will make mistakes as you learn how to solve new math problems. Making mistakes is part of the learning process. Mistakes Do Not mean that you are a failure! When you miss a problem, try solving the problem again. Try to find the error that you made in your work --- this is when the true learning happens. And remember, I am here to help you!

*I've failed over and over and over again in my life.
And that is why I succeed.*

Michael Jordan

Tentative Schedule

Week of	Assignments Due This Week	Quiz/Test Due This Week
Aug 28	1.3 Integer Exponents 5.3 Factoring Polynomials 5.4 Factoring Trinomials	
Sep 4	5.5 Special Factoring 5.6 Summary of Factoring	Quiz Chapter 5
Sep 11	2.1 Functions and their representations 2.2 Linear Functions	
Sep 18	2.3 Slope of a line 2.4 Equations of Lines	
Sep 25	3.1 Linear Equations 3.2 Literal Equations	Test 1 Monday, Sept 25
Oct 2	3.3 Linear Inequalities 3.4 Compound Inequalities 3.5 Absolute Value Equations	Quiz Chapter 3
Oct 9	4.1 Systems of Linear Equations 4.3 Systems of Linear Inequalities	
Oct 16	4.2 Substitution and Elimination	
Oct 23	8.1 Quadratic Functions and their graphs	Test 2 Monday, Oct 23
Oct 30	5.7 Zero Factor Property 8.3 Square Root Property and Completing the Square 8.4 Quadratic Formula	Quiz Chapter 4
Nov 6	6.1 Rational Functions 6.2 Multiplication and Division of a Rational Expression 6.7 Division of Polynomials	
Nov 13	6.3 Addition and Subtraction of a Rational Expression 6.5 Complex Fractions 6.4 Solving Rational Equations	
Nov 20		Test 3 Monday, Nov 20
Nov 27	7.1 Radical Expressions 7.2 Rational Exponents 7.3 Simplifying Radical Expressions	
Dec 4	7.4 Operations on Radical Expressions 7.6 Solving Radical Equations 7.7 Complex Numbers	
Dec 13	Math Final Exam (Wednesday Dec. 13, 10:00 AM – 12:30 PM)	

Valencia East campus closed: September 4, October 12, and November 22-26

Bonus Opportunity

MAT1033C Academic Refreshers Readiness Module: Free Online Resource

1. Go to imathas.valenciacollege.edu
2. Click on “Register as a new student”

Below is a screen shot of the registration page with required information.

The screenshot shows the 'New User Signup' form on the IMATHAS website. The form includes the following fields and annotations:

- Username:** 'Enter a username. Use only numbers, letters, or the _ character.' with a text box containing 'enter your Atlas name'. An annotation points to this field: 'Enter your Atlas username here'.
- Password:** 'Choose a password:' and 'Confirm password:' with text boxes containing '****'. An annotation points to these two fields: 'These 4 blocks have obvious answers'.
- First Name:** 'Enter First Name:' with a text box containing 'enter your FIRST name'.
- Last Name:** 'Enter Last Name:' with a text box containing 'enter your LAST name'.
- Email:** 'Enter E-mail address:' with a text box containing 'enter your VALENCIA email here'. An annotation points to this field: 'Put your Valencia email address here'.
- Course Selection:** 'Select the course you'd like to enroll in'. A dropdown menu is set to 'My teacher gave me a course ID (enter below)'. Below it, 'Course ID:' is '1597' and 'Enrollment Key:' is '1033math'. An annotation points to these two fields: 'Course ID: 2232 Enrollment Key: 1033math'.
- Sign Up:** A 'Sign Up' button at the bottom right. An annotation points to it: 'Finally Click on Sign Up to complete your registration.'

By completing the Academic Refresher Modules in IMATHAS <http://imathas.valenciacollege.edu/>, you can earn 5 bonus points on Exam 1 and Exam 2.

To earn five bonus points on Exam 1:

- Complete Modules 1, 4, 5, and 6 by midnight on September 24. These modules cover (1) Arithmetic and Fractions, (4) Exponents, (5) Polynomials, and (6) Factoring.
- Earn at least 90 percent on each module. Modules may be repeated until you obtain this score.
- Provide proof of module completion and score to your instructor.

To earn five bonus points on Exam 2:

- Complete Modules 2, 3, and 7 by midnight on October 22. These modules cover (2) Linear Equations, (3) Linear Inequalities, and (7) Graphing.
- Earn at least 90 percent on each module. Modules may be repeated until you obtain this score.
- Provide proof of module completion and score to your instructor.