

MAT1033C Intermediate Algebra
Spring 2015

Instructor Information:

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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.

Required Materials:

ACCESS TO WEBASSIGN

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.

Optional Material

TEXT: *Intermediate Algebra – Connecting Concepts Through Applications*, by Mark Clark and Cynthia Anfinson.

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

- use the graphing calculator to enhance and visualize mathematical concepts.
- understand the properties of exponents, and work with real life applications such as scientific notation, and formulas like compound interest.
- recognize the mathematical function concept and describe relationships between variables in real world situations.

- use functions expressed verbally, numerically, graphically, and symbolically.
- recognize, model, and analyze linear equations in real world situations.
- recognize, model, and analyze linear inequalities in real world situations.
- recognize, model, and analyze systems of linear equations in real world situations.
- recognize and analyze polynomials in real world situations.
- recognize, model, and analyze rational expressions in real world situations.
- recognize and analyze radical expressions in real world situations.
- recognize and analyze quadratics in real world situations.

Class Policies

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. **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.**

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 11/07/2014. 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>

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.

Evaluation

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

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.**

Lab Work: You will receive a grade for the activities done in lab. Some of these activities may be group activities. **No makeups are available without explicit consent of the instructor which will only be granted in case of documented extreme emergency.**

Homework: Homework will be assigned in WebAssign and will and should be completed by the deadline assigned.

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.**

Grade Calculation:

Unit Tests: 50% of final grade

Lab Work: 10% of final grade

Homework: 10% of final grade

Final Exam: 30% of final grade

Your final grade will be calculated as follows:

90%-100% "A"

80%-89.9% "B"

70%-79.9% "C"

60%-69.9% "D"*

under 59.9% "F"*

* These grades will require you to repeat
MAT1033C before continuing on in mathematics.

Academic Honesty: You are expected to do your own work on exams and assignments. Providing information to another student or receiving information concerning exam content is considered cheating. The professor reserves the right to determine the appropriate penalties within Valencia College's academic honesty policies.

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.

What to do if you do not understand or need help:

- Review your notes. Rework the examples provided in class. See if it still makes sense!
- 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.
- **Visit the SPA** in building 4.

Do not wait to get help!

Students with Disabilities: Students with disabilities who qualify for academic accommodations must provide a notification from the Office for Students with Disabilities (OSD) and discuss specific needs with the instructor, preferably during the first week 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.

Approximate Schedule: (may change due to pace of class)

Spring 2015

Week	Sections	Notes
1	1.1-1.3	
2	1.4-1.5, 1.7	No classes held on Monday January 19
3	2.1-2.2	
4	2.3-2.5	
5	2.6, Test 1 (Chapters 1&2)	No classes held on Friday February 13
6	Rules for exponents and Scientific Notation, 3.4, 3.5	
7	4.1, 4.2	
8	4.4, 4.5, 4.6	
9		No classes held March 9 – March 15
10	4.7; Test 2 (Chapters 3&4)	
11	7.1-7.3	Withdraw Deadline is Friday March 27
12	7.4, 7.5	
13	8.1, Rational Exponents from 3.1, 8.2	
14	8.3, 8.4	
15	8.5, Test 3 (Chapters 5&6)	
Final		

Online Homework through Enhanced WebAssign

1 ENROLL

You can be enrolled in a WebAssign class in one of two ways:

YOUR INSTRUCTOR ENROLLS YOU

If your instructor gave you a WebAssign account, you are already enrolled. Log in with your new WebAssign account.

YOU ENROLL YOURSELF

Your instructor will give you a class key.

- 1 Go to www.webassign.net.
- 2 Click Have a class key?
- 3 Enter the class key and click **Submit**.
- 4 If the correct class and section is listed, click **Yes, this is my class**.

5 FIRST TIME USERS

Select **I need to create a WebAssign account**, enter the requested information, and click **Create My Account**.

RETURNING USERS

Select **I already have a WebAssign account**, enter your account information, and click **Continue**.

CLASS KEY

A code you use one time to enroll in class. A class key does not verify payment.

SYSTEM REQUIREMENTS

WebAssign is tested and supported for the following Web browsers:

- Firefox 3.5 or later (Linux, Mac, Windows)
- Chrome 12 or later (Windows, Mac)
- Internet Explorer 7 or later (Windows)
- Safari 5 or later (Mac, Windows)

Some WebAssign content and tools require the following browser plug-ins:

- Adobe Acrobat Reader 8 or later
- Adobe Flash Player 10 or later
- Adobe Shockwave Player 11 or later
- Java 6 (build 1.6.0) or later

Additional learning resources provided by textbook publishers or instructors might require other software.

2 LOG IN

These instructions apply for most schools. Some schools use alternative login sites.

- 1 Go to www.webassign.net.
- 2 Type your **Username**, **Institution code**, and **Password**.
- 3 Click **Log In**.
- 4 If you are enrolled in more than one class, select a class from the **My Classes** menu.

I CAN NOT LOG IN

In most cases, your instructor can:

- look up your username
- change your forgotten password

The first time you log in, change your password.

3 PURCHASE ACCESS

WebAssign gives you free access for two weeks after the start of class. To continue using WebAssign after that, either enter an access code or purchase access online.

ACCESS CODE

A code included with some textbooks that verifies you have already purchased WebAssign access.

I HAVE AN ACCESS CODE

- 1 Confirm your code is valid on the Access Card Prefix Check page.
- 2 Log in.
- 3 Select **enter an access code**.
- 4 Select your access code prefix.
- 5 Enter your access code and click **Continue**.

I DO NOT HAVE AN ACCESS CODE

- 1 Log in.
- 2 Select **purchase access online** and click **Continue**.
- 3 Select items and click **Checkout**.
- 4 Review your cart and click **Continue**.
- 5 Enter payment information and click **Review Order and Continue**.
- 6 Review your information and click **Pay Now**.
- 7 Click **Return to WebAssign**.
- 8 Click **Finish**.

CUSTOMER SUPPORT

If you need more help, WebAssign Customer Support is fast and free.

The WebAssign Support staff cannot:

- change your username or password
- give extensions
- change your score
- give you extra submissions
- help you with the content of assignments
- resolve problems with PayPal payments

webassign.net/user_support/student/

PAYPAL SUPPORT

For payment problems, contact PayPal at paypal.com or 1-402-935-2050.

MORE INFORMATION

Search the online help for answers to most questions.

Scan the QR code to go to webassign.net/manual/student_guide/



4 LEARN

Your current assignments are listed on the Home page for each class.

- 1 Click the assignment name.
- 2 Answer the assignment questions. WebAssign supports many different question types. Some questions display a tools palette or open in a new window.
- 3 Submit your answers.
- 4 Review your marks and feedback. Usually, you will see ✓ or ✗ for each answer.
- 5 Change your incorrect answers and submit again.
- 6 When you are done, always click **Log out**.