



COMMUNITY COLLEGE

Computer Mediated
Learning Lab

MATH 97
Intermediate Algebra



MATH 97 Intermediate Algebra

Course Description

Study of the definition of a function; graphs and solutions of linear equations and inequalities; graphs and solutions of quadratic, rational, radical, and literal equations; complex numbers; radical expressions; variation; and applications.

This course is taught in an independent computer-mediated learning mode. You are required to utilize the computer for instruction, practice, certifying, submitting homework and testing. This is *not* a distance education course. Attendance is required for testing and your instructor may require attendance for completing other course requirements.

Text

Intermediate Algebra *with Courseware*, fifth edition, by D. Franklin Wright.

Calculator

A graphing calculator is required.

Other Supplies

A floppy disk or USB drive may be helpful for saving your access code (instead of entering it manually) or when completing work off-site.

Time Requirements

Your grade does not require that you complete a certain number of hours. However, a five credit course typically requires a **minimum of fifteen hours of work each week**. You should expect to spend at least fifteen hours a week or more on your course. The fifteen hours may include work on the computer courseware, reading your book or working out problems and studying.

Websites

<http://www.instruction.greenriver.edu/reising/mathlab/default.htm>
<http://www.hawkeslearning.com>

Computer Mediated Learning

The GRCC Lab utilizes *Hawkes Learning Systems (HLS)* math courseware that corresponds to the textbook. The HLS is interactive, multimedia courseware that instructs, tutors and evaluates student progress.

The courseware consists of the following modes for each lesson:

- **Instruct** – where you learn the material
- **Practice** – practice what you have learned
- **Certify** – demonstrate your mastery of the material. **YOU MUST COMPLETE** the certify mode to complete **EACH ASSIGNED LESSON. YOU MUST COMPLETE ALL ASSIGNED LESSONS PRIOR TO TAKING THE UNIT TEST.**

Evaluation

Your grade is based on the following categories:

| Category | Percent | When, Where, What |
|---------------------|---------|---|
| Certify | 20 | When: At the end of every <i>HLS courseware</i> lesson (after you complete the Instruct and Practice sections). Check your <i>Progress Report</i> for deadlines Where: In your <i>HLS courseware</i> What: <i>Certify</i> mode of <i>HLS</i> (see Certify section) |
| Pre-Test Assignment | 10 | When: At the end of each unit prior to taking the unit test Where: In your <i>WEBTEST</i> (accessed from <i>HLS courseware</i> or going to: http://www.hawkeslearning.com/GRCCIMA) What: this pretest assignment must be completed prior to taking the unit test |
| Test | 70 | When: At the end of each unit. Check your <i>Progress Report</i> for deadlines Where: In class using the lab computers What: TEST 1 - 1.6a, 3.1, 3.2, 4.4, 4.6, 4.7 (review chap 2) TEST 2 - Chapter 5 (omit 5.6) TEST 3 - Chapter 6 (omit 6.3b, 6.6) TEST 4 - Chapter 7 and 8.1 (omit 7.5) FINAL - 8.3 & All above IMPORTANT – ALL certifies must be completed before you are allowed to take each test. |

All work is done on the computer and may also require the submission of written work (see your instructor's information sheet for details).

GRCC utilizes a decimal grading system and grades will be assigned as follows:

| Decimal | Percent | Decimal | Percent | Decimal | Percent |
|---------|------------|---------|---------|---------|------------|
| 4.0 | 98 & above | 3.0 | 85 | 2.0 | 75 |
| 3.9 | 96-97 | 2.9 | 84 | 1.9 | 74 |
| 3.8 | 94-95 | 2.8 | 83 | 1.8 | 73 |
| 3.7 | 92-93 | 2.7 | 82 | 1.7 | 72 |
| 3.6 | 91 | 2.6 | 81 | 1.6 | 71 |
| 3.5 | 90 | 2.5 | 80 | 1.5 | 70 |
| 3.4 | 89 | 2.4 | 79 | 1.4 | 69 |
| 3.3 | 88 | 2.3 | 78 | 1.3 | 68 |
| 3.2 | 87 | 2.2 | 77 | 1.2 | 67 |
| 3.1 | 86 | 2.1 | 76 | 1.1 | 66 |
| | | | | 1.0 | 65 |
| | | | | 0.0 | 64 & below |

You must earn a minimum grade of 2.5 in Math 62, Math 70, and Math 72 to move on to the next math course. Students completing Math 97 must earn a minimum grade of 2.0 to enroll in the next math course at the college level.

Resources for Assistance

All students enrolled in math courses at GRCC have access to the Math Learning Center (MLC) located on the 3rd floor of the SMT building. Students can work on their math with other students and tutors. The MLC also has videos and books available (free with student ID) for check out.

Students Subject to Provisions of Americans with Disabilities Act

If you believe you qualify for course adaptations or special accommodations under the Americans With Disabilities Act, it is your responsibility to contact the Disability Support Services Coordinator, in the Lindbloom Student Center and provide the appropriate documentation. If you have already documented a disability or other condition which would qualify you for special accommodations, or if you have emergency medical information or special needs, please notify your instructor during the first week of class. If you use an alternative medium for communicating, inform your instructor well in advance so that appropriate accommodations can be arranged. Disability Support Services is located in the LSC.

STARTING YOUR COURSE

PURCHASE REQUIRED MATERIALS:

Purchase the required textbook that includes the software from the GRCC bookstore. Please note that once you **use the access code**, the materials are **NOT** refundable.

GET YOUR ACCESS CODE:

1. There are two ways to get your access code. Either go to **www.hawkeslearning.com** and click on “**get your access code**” or click on the “**I need an access code link...**” from the software.
2. Fill out the form (including your 15-digit license number from the yellow sticker on the CD sleeve). Click on the submit button and your personalized access code will appear on the screen. You will also receive an e-mail with the access code in the body of the text and as an attachment called “access.cod” which you should save to a USB drive, floppy disk or another option.

ENTER THE SOFTWARE AND SAVE YOUR ACCESS CODE:

1. Double-click on the purple diamond icon on your Desktop (or go to Start, Programs, Hawkes Learning Systems).
2. Enter your access code when prompted. You may type it, paste it, or load it from a disk (if you saved it from e-mail) by clicking the “Load From Disk” option and browsing to the path where you saved it. If you type or paste your access code, you will be prompted to save it. Save your access code to a USB drive, floppy disk or another option to avoid typing it each time.

TO ENROLL IN YOUR INSTRUCTOR’S GRADEBOOK:

1. **If you have internet access** and have entered your HLS Course ID (which is **GRCCIMA**), you will automatically be asked to enroll in your instructor’s gradebook the first time that you log in to the software. Choose your instructor’s name and the correct section from the pull-down menus.

TO INSTALL THE SOFTWARE AT HOME:

1. Place CD #1 – Installation Disc in the CD-ROM drive. (CD#1 is the only CD needed for the installation.)
2. The installation will begin automatically. Follow the on-screen instructions.
3. You will be prompted to enter an **HLS Course ID**.
-**If you have internet access**, select “Yes, the Course ID is:” and enter **GRCCIMA** in the box provided.
-**If you do not have internet access**, select the option that says “No, I will not be accessing an online gradebook from this computer.”
You may work on *Instruct and Practice* at home without internet access. However, to complete the **required certify** for each lesson, you will need to go to your instructor’s gradebook by going to www.hawkeslearning.com/GRCCIMA.

DAILY PLAN FOR SUCCESS

1. View your **Progress Report** to determine which lessons are required and when they are due. Check this every day!!!
2. Learn the material from the assigned section in the **Instruct** mode.
3. Practice what you have learned in the **Practice** mode.
4. Demonstrate your learning and earn your grade in the **Certify** mode (see next section for directions).
5. Repeat steps 1-4 above for each lesson to receive Certify scores.
6. Complete the Practice Test Homework lesson for the unit
7. Take the unit Test (you may be able to do this early, check with your instructor).

TO CERTIFY (DO YOUR ASSIGNMENT IN THE SOFTWARE):

1. The **Certify** option is where you will complete your assignment.
2. After certifying, you will be given a certification code (this verifies that you completed your assignment). It is recommended that you print and/or save your certification code.
3. **a. If you have internet access**, you should receive a message that says your certificate has been submitted in your instructor's gradebook. If you are working on a campus computer this will be done automatically. You are now done with that assignment! If you do not receive this message, follow the directions under "b."
b. If you do not have internet access on the computer you are working on, you will need to manually submit your certification code from another computer that is on the internet to get credit for your assignment in your instructor's gradebook. You will need to save your certification code to a disk or USB memory stick or print out the certification code. Then go to another computer that is online and do this,

- Go to www.hawkeslearning.com/GRCCIMA and log in using your access code.

- Click the **Submit Certificate(s)** tab option.

- If you saved your certification code to a file, click "Browse" to find your code and click "Submit Certificate". If you have a paper copy of your certificate, click the "Type or Paste" tab, select the lesson you have certified in, type in your code and click "Submit Certificate".

You will need to perform these steps after you Certify to get credit for each of your assignments.

*** Be sure you submit your Certification Code ON or BEFORE the due date to get credit for the assignment.**

Learning Objectives

By the end of the quarter, the student should be able to::

1. Define a function.
2. Graph linear, quadratic, and other functions.
3. Solve basic problems involving ratios, proportions, and variation.
4. Work with rational exponents and radicals.
5. Solve quadratic equations using tables, graphs and algebra.
6. Use complex numbers for the solution of equations.
7. Work with the arithmetic of complex numbers.
8. Use mathematics to solve practical applications.
9. Solve rational equations.
10. Solve radical equations.
11. Work with arithmetic of rational expressions.
12. Simplify radical expressions.
13. Derive linear and quadratic equations.
14. Solve basic problems using linear and quadratic regression techniques

The following GRCC Quantitative/Symbolic Reasoning and Critical Thinking Outcomes are applicable in this course:

1. Student provides reasons for the conclusions they reach and assess the relevance and adequacy of those reasons.
2. Students connect past learning with current topics.
3. Student evaluates and interprets information/data.
4. Student recognizes which processes or methods are appropriate for solving a given problem, and correctly implements those processes.
5. Student demonstrates the ability to estimate a solution to a presented problem.
6. Student translates data into various formats such as graphs, tables, formulas, and sentences.

The student will be assessed on these outcomes through participation, tests, quizzes and homework.