

Cuyamaca College Spring 2017
MATH 010 + 110 Section # 9946 and #9948
Intermediate Algebra with Concurrent-Enrollment Support

Instructor:	Scott Eckert	Email:	scott.eckert@gcccd.edu
Class Times:	TTh 12:30 am – 4:45 pm Thursday Lab 3:30 – 4:45 pm	Room:	H-113 H-119
Office Hours:	MW 11:00 – 12:00 pm TTh 11:00 – 12:30 pm	Office:	H-132
MyMathLab:	www.mymathlab.com	Course ID:	eckert10259
Web Site	www.cuyamaca.edu/scott.eckert		

Course Description:

MATHEMATICS 010	MATHEMATICS 110
JUST-IN-TIME-SUPPORT FOR INTERMEDIATE ALGEBRA	INTERMEDIATE ALGEBRA FOR BUSINESS, MATH, SCIENCE AND ENGINEERING MAJORS
A review of the core prerequisite skills, competencies, and concepts for intermediate algebra. Intended for students who are concurrently enrolled in MATH 110, <i>Intermediate Algebra, at Cuyamaca College</i> . Review topics include: computational skills developed in pre-algebra, the vocabulary of algebra, translation from English to algebra, and evaluation of literal expressions and functions. Topics covered in more depth include: solving and graphing linear equations and inequalities in one and two variables, solving and graphing systems of equations in two variables, factoring, algebraic operations on polynomial and rational-expressions, solving quadratics using factoring, and rational equations. Recommended for students with little or no recent knowledge of algebra. A graphing calculator is required for this course. Pass/No Pass only. Non-degree applicable.	The second of a two-course sequence in algebra. This course completes some topics from the first course, such as factoring and operations on rational and radical expressions, and includes the addition of new topics such as absolute value equations and inequalities, exponential and logarithmic expressions and equations, conic sections, and an introduction to matrices and sequences and series. The concept of functions is developed including composition and inverses. Quadratic functions are covered in depth. Computational techniques developed in beginning algebra are prerequisite skills for this course. This course is appropriate for students with knowledge of beginning algebra or who have had at least two years of high school algebra but have not used it for several years. Graphing calculators are required for this course. <i>Maximum of 5 units can be earned for taking MATH 103 and 110.</i>

MY MATH LAB SETUP:

To create an account you will need:

- i. Internet connection – go to www.mymathlab.com
- ii. An access code that came with your textbook
- iii. Course ID # _____
- iv. Your personal email address

Any information above is **tentative** and may change at the discretion of the instructor at any time. This course adheres to the policies outlined in the Cuyamaca College catalogue. For further information, see [Academic Policies](#) stated in the catalogue.

TEXT AND MATERIALS:

1. **Text & MyMathLab Bundle**: Textbook = Mathematics in Action – Algebraic, Graphical, and Trigonometric Problem Solving 5th ed. (The Consortium for Foundation Mathematics) and MyMathLab computer access code. **(REQUIRED)**
If you are repeating the course, it **REQUIRED** you purchase a **NEW** textbook, but get the textbook **without** the MyMathLab code. You can reuse your MyMathLab.
2. **Calculator**: A TI-83 OR a TI-84 Plus graphing calculator is **(REQUIRED)**. The Mathematics Department of Cuyamaca College highly recommends and supports the use of Texas Instruments graphing calculators.
3. Notebook paper, PENCIL, eraser and a 3-ring binder **(REQUIRED)**



IMPORTANT DATES TO REMEMBER:

- **Jan 31, Tue** First day of regular semester classes
- **Feb 10, Fri** Last day to drop and qualify for a refund
- **Feb 13** Census Day (Semester length Classes)
- **Feb 17, 20th** **Holiday**: Presidents' Birthdays observed for Lincoln and Washington
- **March 27-31** **Holiday**: Spring Break (or Easter Holiday)
- **Apr 28, Fri** Last day to drop semester-length classes (with a "W")
- **May 29, Mon** **Holiday**: Memorial Day
- **May 30 – June 5** **Final Exam Week: No regular class meetings (exam only)**
- _____ **Final Exam at** _____

COOPERATIVE LEARNING ENVIRONMENT:

This course will be taught in a student-centered learning environment; you will work as a team that will succeed together or fail together. You are expected to work actively with your peers, sharing, taking and giving, listening and explaining, questioning and answering. You are responsible for being prepared for participation in class discussions and in group work, and for assisting your peers to come to an understanding of mathematics. You are encouraged to establish study partners with whom you may study and prepare for exams.

TIPS FOR SUCCESS

- Ponder these success principles so you can achieve your best from this class.
- Cultivate a positive attitude; Make friends and do your homework together in groups.
- Every time - Come on time and stay the whole time. Read the new material **BEFORE** it is presented in class.
- Take **responsibility** for **YOUR** own learning.
- Ask questions – lots of questions – to yourself, to classmates, to tutors and to the instructor.

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CLASSWORK, HOMEWORK AND COMPUTER WORK:

Classwork: Classwork consists of both individual and group activities. Some (but not all) of your in-class activities will be graded. For the in-class group work, each group member should complete the work and keep a copy for review. However, I may randomly select only one group member's work to grade for the entire group, OR I may choose to chat with that group member to determine how well the group has mastered the lesson. Again, the group members present will earn the same grade for the activity/group-work. I do not accept late work for in-class assignments and you cannot make-up missed in-class assignments (so if you miss class, you will earn a zero for any in-class work collected on that day).

Homework: Problems will be assigned from each section of the text covered in class. I will not collect all paper homework. I will randomly select assignment to collect. Any late book homework for a given chapter can be turned in on the test day for the chapter for 50% credit. The paper and pencil homework will also be assigned as the semester progresses. Each assignment should be neat with your **NAME** at the top of the page. You don't want to lose points for your hard work because you did not put your name or the teacher cannot read it.

Computer Work; Students will have online homework problems. Our class meets in the computer lab once a week. The online homework is to be completed through MyMathLab.com. It is your responsibility to regularly check your computer account for the assignments and their due dates. Please obey the computer lab rules and remember that food and drinks are not allowed in the Math Lab and STEM center. Failure to submit computer homework on time will result in 40% deduction up to the time to the chapter exam. After the chapter exam the computer homework can NOT be submitted.

QUIZZES: All quizzes will be either given as individual or as group quizzes. Quizzes will generally be given in class either as verbal or written quizzes. Some quizzes due dates will be announced in class; however, homework quizzes are unannounced.

EXAMS: There will be 6 exams during the semester. These cannot be made up. Students who have a legitimate reason for being absent on an exam day, need to contact me **before** the test date to schedule another time. A no-show without contacting me will result in getting a zero for that test. **Cell phones, or other communication devices, are not allowed on exams.** Turn the cell phone off and put them away. If I catch you with one out, I will take your exam away and you will get no credit for the unfinished part of the test.

AFFECTIVE SUPPORT ASSIGNMENTS: These assignments may include reading articles, watching videos, writing and reflecting on certain concepts and ideas regarding the affective part of your learning. Points will be deducted if an assignment is handed in after the due date. These assignments are worth 5% of your overall grade.

FINAL EXAM: A comprehensive final exam will be given at the end of the course and is worth 20% of your overall grade. The final exam is mandatory and may not be dropped. If you do not take the final, you will receive a failing grade in the course. If you receive less than a 60% on the final, you will receive a "D" or an "F".

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CLASS POLICIES/ EXPECTATIONS:

Your decision to enroll in this class constitutes an implicit agreement to the following:

TIME COMMITMENT: You are expected to keep up to date, study your notes and do the homework. The usual rule of thumb for college courses is a minimum: Two hours of study out of class for every hour in class. Since we meet 8 hours per week, you should spend *at least* 16 hours studying and doing homework for this class each week **(about 2.5 hour PER NIGHT).**

RESPECT: You are expected to be courteous to each other and to the instructor. My classrooms are group oriented and there is a lot of talking amongst students as well as with the instructor. We need to respect each other when it is time to listen and when it is ok to talk. When the teacher or a classmate is talking you are to listen (without interrupting). You will be given time to comment and ask questions. You will be asked to leave the class for display of behavior the instructor deems as disruptive to the learning environment.

ACADEMIC DISHONETY: If you are caught cheating or plagiarizing, you will earn a 0 on that assignment/test. If it happens a second time, you will earn a '0' on that assignment and you will be reported to the Dean of Student Services which will go on your permanent record and may result in removal from the class.

NO CELL PHONES: All cell phones must either be turned off or put on silent during class time. They are not allowed on desks during class at all and are not to be used as a calculator. If you have your cell phone out during class, the instructor may take it from you to be returned after class is over.

ATTENDENCE: You are expected to attend each class, **arriving on time** and **remaining for the entire class**. Please grant me the courtesy of letting me know at the beginning of class if you will need to leave early.

- You may be dropped from the class if you are absent more than three. If this becomes a problem, please come and speak with me. I may decide to drop you unless you convince me of your motivation to stay, and your grades support this motivation. When you are dropped you may receive a "W" or an "F", depending on the date dropped.
 - Do not assume that you will be dropped if you do not attend classes. To ensure that you are withdrawn, you must officially withdraw online, in person, or by telephone. Failing to drop a class in a timely manner may earn you a failing grade in the class.
- Arriving late or leaving early may be counted as an absence. Excessive tardiness (3 or more) will result in being dropped. The tardy policy will begin after the second week of class for a full-semester session.
- You are responsible for getting class notes from other classmates and getting any schedule changes or other class announcements from classmates on days missed from the class. Any changes and class announcements will be made known in class. It is not acceptable to return to class following an absence and claim that you did not know about some assignment, class activity, quiz, or an exam.

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METHOD OF EVALUATION:

This class is an 8 unit course. Your semester grade will be based on the different categories listed below:

- HOMEWORK & Groupwork 25% of overall grade
- QUIZZES (Individual and Group) 10% of overall grade
- EXAMS 40% of overall grade
- AFFECTIVE SUPPORT ASSIGNMENTS 5% of overall grade
- FINAL 20% of overall grade

Your final grade is based on the percentage of the number of points you have acquired over the semester to the total number of points possible.

An A = 90% or higher, B = 80% - 89.9%, C = 70% - 79.9%, D = 60% - 69.9%, F = below 60%.

Note: You must earn at least a “D” on the final AND earn an overall average of 70% to earn a passing grade in this course!

TUTORING: To support your efforts to succeed in this class, it is highly recommended that you utilize the free math tutoring services available in the STEM Center (the Tutoring Center). Students needing additional help to achieve the learning outcomes for this class are encouraged to enroll in **Math 198, Supervised Tutoring**. The H-building STEM center tutor station will provide students with an add code to enroll in this free non-credit class. Instructors and student tutors are available to answer homework questions, give confidence, and support math students. Students also have access to graphing calculators, textbooks, instructional videos, and computer tutorial programs. Computers are also available for student use. **Hours of the STEM Center: M–Th 9:00 am – 4:00 pm, Friday 9:00 – 12:00 pm.**

Student Learning Outcomes:

Math 010	Math 110
Upon successful completion of this course, students will be able to:	
<ol style="list-style-type: none">1) Reorganize or simplify algebraic expressions.2) Solve linear equations.3) Graph linear equations.4) Find linear equations.	<ol style="list-style-type: none">1) Simplify or reorganize expressions.2) Solve equations and inequalities.3) Solve systems of two or three equations.4) Recognize and graph elementary conics.5) Use the graphing calculator to solve equations graphically.6) Solve application problems.7) Simplify or reorganize functions by operations.8) Graph a function and identify its defining elements.9) Find the domain and range of a given function.

ACCOMODATIONS:

Academic accommodations are available for students with disabilities. Please identify yourself to me (after class) and/or to **Disabled Students Programs & Services** staff so that the appropriate accommodations can be ensured. If you suspect you have a learning disability or need services for any other type of disability, contact the **Disabled Students Programs & Services (DSP&S) Office, A-113**, at the **Student Services One-Stop Center** or call **(619) 660-4239**.

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Math 10/110 Syllabus Addendum at Cuyamaca College - A Contract for Success

Math 10 is a concurrent-enrollment support course that uses a just-in-time approach to provide you with the prerequisite skills needed to succeed in Math 110, Intermediate Algebra. Taken together, Math 10 and Math 110 constitute a one-semester course combo (Math 10/110) that replaces the traditional pathway to transfer-level math such as PreCalculus OR College Algebra & Trigonometry OR Business Calculus. Consequently, in just one semester (as opposed to two or even three semesters in the traditional math pathway), you could be ready to take a transfer-level math class.

Since Math 10/110 is a new pathway through transfer-level math at Cuyamaca College, it is very important that you understand the benefits and issues associated with your enrollment in this course combo. So please carefully read the following and be prepared to sign at the bottom of the page after the first week of class to indicate that you have read and understood each of the bulleted statements.

- In the Math 10/110 combo course, I understand that I will regularly be involved in groups and need to cooperate, communicate and engage with other students.
- In the Math 10/110 combo course, I understand that I will use writing skills to explore many questions and topics prerequisite to understanding Intermediate Algebra, and that I will be required to write every day.
- I understand that I must earn a grade of C or better in Math 110 to earn a passing grade in the companion Math 10 class.
- I understand that I will NOT pass the Math 10 class if I earn less than a C in the companion Math 110 class.
- I understand that together Math 10 and Math 110 is an eight-unit course combo and consequently if I am NOT successful, I could be placed on academic probation which may adversely affect my financial aid.
- I understand that Math 10/110 is an accelerated approach intended to prepare me for transfer-level math.
- I understand that we will NOT study every topic from arithmetic, pre-algebra, and beginning algebra in Math 10. Rather, as necessary we will study only those topics that are needed to understand the basics of Math 110, Intermediate Algebra.
- If I am successful in Math 10/110, I will make every effort to enroll in a transfer-level math class the following semester.
- If I am successful in Math 10/110 and do NOT enroll in a transfer-level math class the following semester, I understand that I am more likely to forget the prerequisite skills for transfer-level math and therefore will be less likely to succeed in transfer-level math.
- I understand that Math 10 will count towards my financial aid if I am receiving financial aid at Cuyamaca College and may NOT count towards my financial aid if I am receiving financial aid at Grossmont College.

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