

Syllabus

MATHEMATICS 150 / [TuTh-PM – Yellow Class] INTERMEDIATE ALGEBRA (CRN # 20795)

FALL 2011 SEMESTER (August 29 – December 17)

Instructor: Mr. Rob Everest

Class Location: MA 206, TuTh 1:05pm-3:35pm

Textbook: Intermediate Algebra, 11th edition (Lial, Hornsby & McGinnis),
(bundled with a MyMathLab Student Access Code)

Office Location: MA 214

Telephone: (626) 852-8054

Office Hours : MW 11:00am-12:30pm & TuTh 11:30am-12:45pm

E-mail: reverest@citruscollege.edu

Websites:

<http://www.citruscollege.edu/academics/courses/everest/Pages/default.aspx>
& <http://www.matheverest.com>

This semester you will delve further into the study of algebra. Curriculum includes linear equations/ inequalities; graphs; function notation and terminology; systems of equations; polynomials; rational expressions/functions; radical expressions/functions, quadratic equations/inequalities, inverse, exponential and logarithmic functions; conic sections; binomial theorem ; and technological integration.

MATH 150 STUDENT LEARNING OUTCOMES

Upon completion of this course, students will be able to do the following:

- Formulate an analysis of how to simplify algebraic expressions by applying properties of real numbers, rules of exponents, and rules of radicals
- Critically examine how to solve quadratic equations by applying factoring techniques, the square root property, completing the square, and the quadratic formula
- Analyze and develop an understanding of how to interpret data about a given line, such as slope, points on a line, and the relationship of the line with other lines
- Critically examine how to apply a systematic problem-solving approach by utilizing linear equations and inequalities in one variable, variation, absolute value equations, quadratic equations, rational equations, and systems of two and three linear equations
- Formulate an analysis of how to completely factor polynomials by applying the appropriate types of factoring, including greatest common factors, grouping, difference of squares, sum and difference of cubes, trinomials, and combinations of these methods
- Examine and analyze functions and formulate conclusions based on interpretations of functions and their graphs
- Analyze linear, nonlinear and inverse functions, and conic sections
- Develop an understanding of how to solve and check solutions of systems of two and three linear equations using various algebraic methods
- Develop an understanding of how to perform operations of addition, subtraction, multiplication, and division on polynomials, rational expressions, radical expressions, and complex numbers
- Develop an understanding of the basic functions and keystroke sequences of a scientific calculator
- Use appropriate study skills, including note-taking, frequent review, regular attendance, sufficient study time outside of class, presentation of work in a manner consistent with class instruction, and completing assignments in a timely manner
- Use proper mathematical notation and format

Accommodation: If any student is in need of an accommodation due to a documented disability, the student must notify the instructor within the first two weeks of class in order for the proper arrangements to be made.

Attendance/Participation:

- Three tardies equals one absence. You are considered tardy if you are not present in class for between five minutes up to half of the minutes of any class, regardless as to whether that means you missed the beginning of class, part of the middle of class, or you left early. Each tardy deducts 2 points from your participation grade.
- You are considered absent from any class, if you do not attend for at least half of that one session. Three absences are allowed through the eight-week drop date. If you accrue more than these three allowable absences (four or more) during the first eight weeks of the semester, you will be automatically dropped from the class. If two of these allowed absences occur in the first two weeks of class, you will be dropped from the class. During the second half of the semester, three more absences are allowed before receiving an automatic fail. Each absence deducts seven points from your participation grade. Missing an exam, without previously informing the instructor, may result in your being dropped from the class.
- Deliberate distractions from class, like sleeping in class; cell phones going off, **text messaging**; not having your textbook, notebook and writing utensils; doing your homework in class; etc., will not be tolerated. Each deliberate distraction from class deducts 2 points from your participation grade, and you will need to leave the room until allowed back in the classroom. A second deliberate distraction in the same class period will be met with dismissal from class the entire day, which means a 7 point participation grade deduction.

Grading :

Individual tests 30%

Quizzes 15%

Final Exam 25%

MyMathLab.com Homework 20%

Participation 10%

Grading Scale :

89.5% - 100% "A"

59.5% - 69.4% "D"

79.5% - 89.4% "B"

0% - 59.4% "F"

69.5% - 79.4% "C"

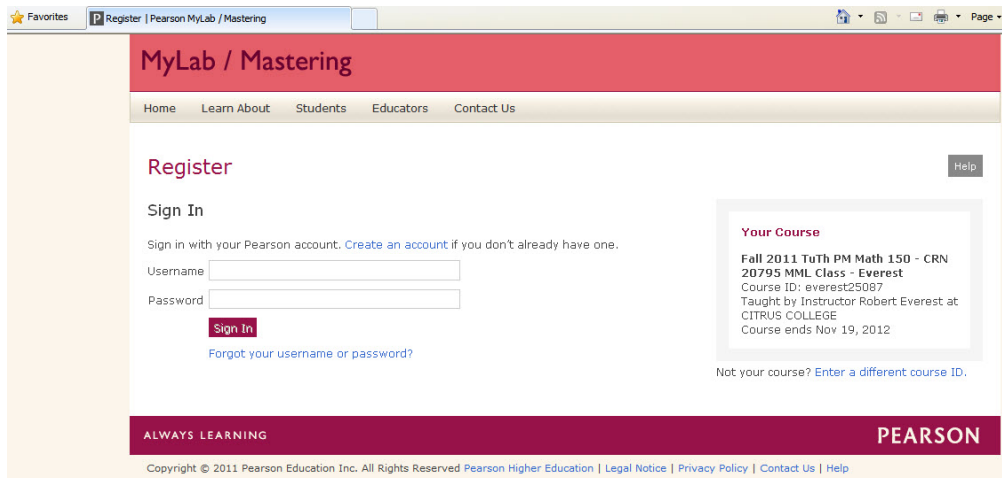
Exams

- Quizzes can be announced or not. If a student is not present either the day that a take-home quiz is passed out, or the day that it is due, the student will not receive credit for that quiz, unless previous arrangements have been made with the instructor. **All take-home quizzes are to be done (on your own) independently; that is without help from anyone, including other classmates and tutors.** Any form of group work on take-home quizzes will be treated as cheating, and dealt with appropriately.
- Five individual exams will be administered during the semester at approximate two to three week intervals.
- Missing an exam, without previously informing the instructor, may result in either your being dropped from the class, or your failing of the class. At the least, you will receive a zero on that exam. **If the missed exam is the first or second exam, you will automatically be dropped from the class.**
- **FINAL EXAM DATE: Tuesday, December 13th, 2011, 1:00 pm – 3:00 pm**

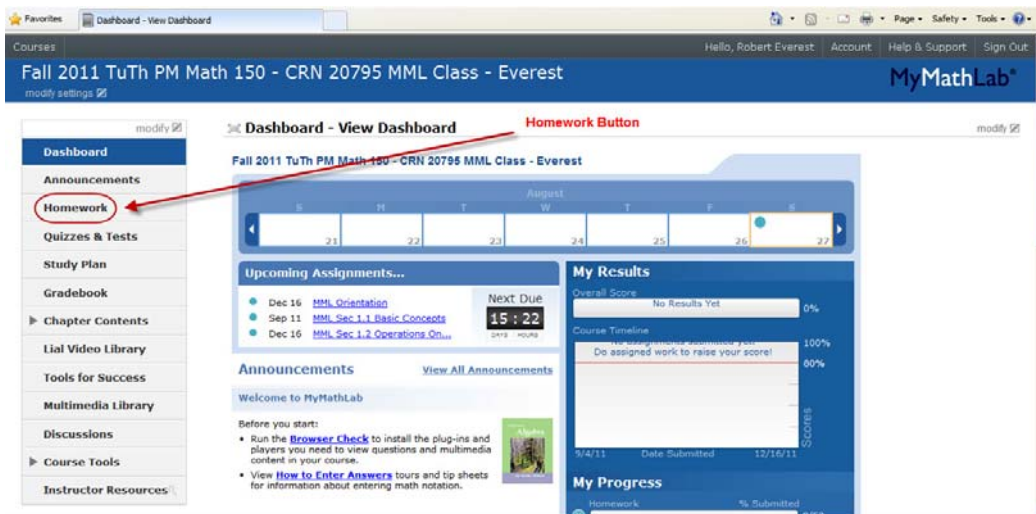
Homework :

Homework (HW) is to be done digitally within our MyMathLab.com class : **everest25087** , which **has the course name : "Fall 2011 TuTh PM Math 150 - CRN 20795 MML Class – Everest"**

- You need a MyMathLab Student Access Code , if you have obtained a book without the student access code.
- When registering for the class, the screen should look like this:



- The Homework assignments are available off the “**HOMEWORK**” button, and have names like “MML Sect 1.1...”, and “MML Sect 1.2...”, for sections 1.1, 1.2 , etc.. All of the homework assignments cover just a section from within a chapter from our textbook. The MyMathLab class site will look like the picture below and the “**HOMEWORK**” button has been pointed out in the following picture:



- The course ID is : **everest25087** (do not put a space between the “everest” & “25087”)
- **Deadlines for the 49 MyMathLab homework assignments (by individual section) are included on another handout given at the beginning of the class.**
- **As I will demonstrate in class. you have three attempts at any particular problem, but you can ask for another problem, which essentially means that you have an unlimited number of attempts for each problem. By the end of the semester, I will drop the lowest five (5) scores of these 49 MyMathLab homework assignments, in computing your MyMathLab homework average.**

Calculator:

A **scientific calculator** with logarithmic and natural logarithm keys is **required**. These kind of calculators are affordable (in the \$10-\$20 range) and are available in almost all stores that sell electronic devices, and are characterized by having the trigonometric functions; that is, the “sin”, “cos”, and “tan” buttons. A graphing calculator (many versions/models available) is allowed, but **graphing calculators cannot be used as your sole method of solving problems**. You must be able to simplify & solve problems by “pencil and paper methods”, as modeled in class. Both the textbook and the instructor will be using the **TI-84 Plus** (from Texas Instruments, available at many stores that sell electronic devices, and costs around \$100) to model the analysis of algebraic problems with the use of handheld technology. Most students find that the utility, while using these very handy tools, far outweigh the extra amount of money spent. You are to use these graphing calculators though to check the answers that you simplified/solved through pencil and paper methods. You will find examples of the use of these graphing calculators in almost every chapter of the textbook. **TI-89’s and TI-92’s are only allowed once cleared with the instructor!** Check your calculator, and come talk to Mr. Everest, if you have a TI-89 or a TI-92.

Behavior: General school policies apply. **All work is to be completed individually**, unless otherwise directed by the instructor. **Cheating consequences range from a zero on the assignment to an “F” in the class**. All matters concerning student behaviors and disciplinary issues are subject to the outlined principles in the student handbook.

General announcements: **All work** (quizzes, tests, and homework) **should be done in pencil**, and should be ready to be turned in at the beginning of the class in which it is due. **All applicable steps (solutions/work) need to be shown. No late work will be accepted. All graphing needs to be done on graph paper.** All dates listed in the regular schedule apply. There will be “no record” shown, if you drop this class by the **Monday of the 4th week, (September 19th, 2011)**. If this class is dropped on or before the **Monday of the 9th week, (October 24th, 2011)**, you will receive a “W” (withdrawal) on your transcript. After the “W” deadline, the student will receive the applicable letter grade. **No food or drink are allowed in class, except water in a closable container.**