



SOUTHWEST COLLEGE
Department of Mathematics
Course Syllabus

Math 0308: Fundamentals of Math II
CRN 30914- FALL 2014-Hybrid
West Loop Center: 10:00 am – 12:00 pm/TuTh

Instructor: Adnan Said

MyLab Course ID: said29696

School Zip Code: 77081

Contact Information: adnan.said@hccs.edu

Please feel free to contact me concerning any problems that you are experiencing in this course. You do not need to wait until you have received a poor grade before asking for my assistance. Your performance in my class is very important to me.

Office hours and location: (by appointment)

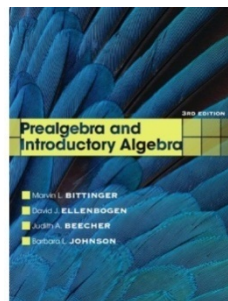
MoWe: 2:30 pm – 3:15 pm, TuTh: 2:00 pm – 2:45 pm, West Loop Center, Room C256.

Textbook: Prealgebra and Introductory Algebra

by Bittinger&Ellenbogen; 3rd Ed.

Publisher: Addison Wesley, 2011

ISBN-13: 9780321731630



The textbook is packaged together with the solutions manual and the MyLab access code at the bookstores at SW College. The access code can also be purchased separately online or at the bookstore.

Textbook Options:

MyMathLab software contains an e-version of the textbook (i.e., e-book). It is your decision to either a) purchase the MyMathLab software **only** (and use the e-book), or b) purchase the MyMathLab software **and** the physical textbook.

Reusing an user code or user name on MML:

Students who (a) dropped or failed MATH 0306 or 0308 OR (b) are taking MATH 0308 AFTER passing MATH 0306 may use their code again within a certain timeframe by logging in using the same user name and password, and then selecting "**Enroll in a new course**" under "**Courses you are taking**". However, students must have a new code for a course that uses a different textbook. Please contact *MML* Technical Support **directly** (number given below) in case of questions or difficulties. The instructor cannot assist with issues in the enrollment process or technical problems. Technical Support Line: 1-800-677-6337

CourseDescription: Math 0308: Fundamentals of Math II. Credit: 4 (3 lecture and 1 lab).

Topics include: real numbers, linear equations, inequalities, polynomials, factoring, rational expressions, and basic geometry. All students who enroll in this course are expected to complete MATH 0312 before attempting their first college-level mathematics course (usually MATH 1314 College Algebra).

Prerequisite: Math 0306 or Math 0106: Pass with “C” or better, or suitable placement test score.

Course Intent and Audience: This course is intended for students who have never been exposed to algebra or who have been away from the subject for quite some time. In particular, this course is intended to prepare students for the study of Intermediate Algebra, a course that builds the foundation for the study of College Algebra. This course is intended for students who require state mandated remediation.

Attendance Policy:

It is important that you come to class. Attending class regularly is the best way to succeed in this class. Research has shown that the single most important factor in student success is attendance. Going to class greatly increases your ability to succeed. You are expected to attend all lectures regularly. You are responsible for materials covered during your absences. Class attendance is checked daily. Although it is your responsibility to drop a course for nonattendance, the instructor has the authority to drop you for excessive absences.

If you are not attending class, you are not learning the information. As the information that is discussed in class is important for your career, students may be dropped from a course after accumulating absences in excess of six (6) hours of instruction. The six hours of class time would include any total classes missed or for excessive tardiness or leaving class early.

Poor attendance records tend to correlate with poor grades. If you miss any class, including the first week, you are responsible for all material missed. It is a good idea to find a friend or a buddy in class who would be willing to share class notes or discussion or be able to hand in paper if you unavoidably miss a class. Class attendance equals class success.

Withdrawal policy:

If you feel that you cannot complete this course, you will need to withdraw from the course prior to the final date of withdrawal. Before you withdraw from your course; please take the time to meet with the instructor to discuss why you feel it is necessary to do so. The instructor may be able to provide you with suggestions that would enable you to complete the course. Your success is very important. Beginning in fall 2007, the Texas Legislature passed a law limiting first time entering freshmen to no more than SIX total course withdrawals throughout their educational career in obtaining a certificate and/or degree.

To help students avoid having to drop/withdraw from any class, HCC has instituted an Early Alert process by which your professor *may* “alert” you and HCC counselors that you might fail a class because of excessive absences and/or poor academic performance. It is your responsibility to visit with your professor or a counselor to learn about what, if any, HCC interventions might be available to assist you – online tutoring, child care, financial aid, job placement, etc. – to stay in class and improve your academic performance.

If you plan on withdrawing from your class, you must contact a HCC counselor or your professor prior to withdrawing (dropping) the class for approval and this must be done PRIOR to the withdrawal deadline to receive a “W” on your transcript.

**Final withdrawal deadlines vary each semester and/or depending on class length, please visit the online registration calendars, HCC schedule of classes and catalog, any HCC Registration Office, or any HCC counselor to determine class withdrawal deadlines. Remember to allow a 24-hour response time when communicating via email and/or telephone with a professor and/or counselor.

Do not submit a request to discuss withdrawal options less than a day before the deadline. If you do not withdraw before the deadline, you will receive the grade that you are making in the class as your final grade.

Repeat Course Fee:

The State of Texas encourages students to complete college without having to repeat failed classes. To increase student success, students who repeat the same course more than twice, are required to pay extra tuition. The purpose of this extra tuition fee is to encourage students to pass their courses and to graduate. Effective fall 2006, HCC will charge a higher tuition rate to students registering the third or subsequent time for a course. If you are considering course withdrawal because you are not earning passing grades, confer with your instructor/counselor as early as possible about your study habits, reading and writing homework, test taking skills, attendance, course participation, and opportunities for tutoring or other assistance that might be available.

Classroom Behavior:

As your instructor and as a student in this class, it is our shared responsibility to develop and maintain a positive learning environment for everyone. Your instructor takes this responsibility very seriously and will inform members of the class if their behavior makes it difficult for him/her to carry out this task. As a fellow learner, you are asked to respect the learning needs of your classmates and assist your instructor achieve this critical goal.

Academic Honesty:

A student who is academically dishonest is, by definition, not showing that the coursework has been learned, and that student is claiming an advantage not available to other students. The instructor is responsible for measuring each student's individual achievements and also for ensuring that all students compete on a level playing field. Thus, in our system, the instructor has teaching, grading, and enforcement roles. You are expected to be familiar with the University's Policy on Academic Honesty, found in the catalog. Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Penalties and/or disciplinary proceedings may be initiated by College System officials against a student accused of scholastic dishonesty.

Resources and supplemental instruction:

Any student enrolled in Math 0308 at HCC has access to the math tutoring labs which are staffed with student assistants who can aid students with math problems and offer help with MyLab. In addition, free online tutoring is provided using Ask Online. For more tutoring information and for tutoring hours and locations, go to the math department web page at <http://swc2.hccs.edu/math/>, and select the tutoring link. Another helpful resource is the student solutions manual that may be obtained from the bookstore.

Students with Disabilities:

Students who require reasonable accommodations for disabilities are encouraged to report to Dr. Becky Hauri at 713-718-7910 to make necessary arrangements. Faculty is only authorized to provide accommodations by the Disability Support Service Office.

Use of Camera and/or Recording Devices:

As a student active in the learning community of this course, it is your responsibility to be respectful of the learning atmosphere in your classroom. To show respect of your fellow students and instructor, you will turn off your phone and other electronic devices, and will not use these devices in the classroom unless you receive permission from the instructor.

Use of recording devices, including camera phones and tape recorders, is prohibited in classrooms, laboratories, faculty offices, and other locations where instruction, tutoring, or testing occurs.

Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations.

Sexual Harassment:

It is a violation of HCC policy for an employee, agent, or student of the college to engage in sexual harassment as defined in the EEOC guidelines (EEO/AA Compliance Handbook 47).

Note:

This is a hybrid class. I will cover 3 or 4 sections per class period .Assignments have been developed that will enhance your learning. To better understand a topic, you will be given assignments on key information that you will need to remember for full success in your career.

Homework policy:

All homework must be completed online using MyLab. To register for MyLab and to access the homework, go to www.pearsonmylab.com. Please see the MyLab registration overview that touches on each registration method and follow the instructions on how to register and use MyLab. It is the student’s responsibility to finish the homework before due dates. The score for any homework not attempted will be a zero (0).

Exam Policy:

Your instructor will conduct three exams, and a final exam to determine how successful you are at achieving the course learning outcomes (mastery of course content and skills) outlined in the syllabus.

Make-up:

Make-up will not be given. The final exam score replaces the lowest exam score. If you miss an exam, that will be your lowest score.

Final Examination:

The final examination is departmental and consists of 40 Multiple-choice problems. The problems cover all the material required in the course.

Grading:

For your final course average, the scores from the four exams, MyLabHomework, and the final examination will be taken into consideration as shown in the following formula:

Final Course Average is:

$$(\text{Exams average})(0.40) + (\text{MyLabHomework average}) (0.35) + (\text{Final exam}) (0.25).$$

Grading Percentages

Three exams	40% of your final grade
MyLabHomework	35% of your final grade
Final Exam	25% of your final grade

Your final course grade is based on the following standard HCCS Grading Scale.

90 - 100 = A	80 - 89 = B	70 - 79 = C	60 - 69 = D	Below 60 = F
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A grade of “IP” (In Progress) will not be given. If your final grade is a “D”, then you may be eligible to take the bridge course MATH 0108 instead of repeating the class. To determine eligibility, please

contact the math department. A grade of “F” is given if the final average is below 60 or the final exam grade is below 60.

FINAL GRADE OF FX

Students who stop attending class and do not withdraw themselves prior to the withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of “FX” at the end of the semester. Students who stop attending classes will receive a grade of “FX”, compared to an earned grade of “F” which is due to poor performance. Logging into a DE course without active participation is seen as non-attending.

Please note that HCC will not disperse financial aid funding for students who have never attended class. Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of “FX” is treated exactly the same as a grade of “F” in terms of GPA, probation, suspension, and satisfactory academic progress.

Tests Schedule and Important Dates:

Test # 1	9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 10.1, 10.2, 10.3, 10.4	TBA
Test # 2	10.5, 10.6, 10.7, 10.8, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6	TBA
Test # 3	12.7, 12.8, 13.1, 13.2, 13.3, 13.5, 13.6, 14.1, 14.2	TBA

Last Day to Drop Classes	November 21, 2014
Thanksgiving Holiday	November 27, 2014
Final Exam (Cumulative)	December 10, 2014 at 10:00 am

Instructional Methods

As an instructor, I want my students to be successful. I feel that it is my responsibility to provide you with knowledge concerning the field of mathematics, modeling good analytical problem solving strategies, and organizing and monitoring the success of each student with homework that allows you to connect the information that you learn in this course to applications in other course work and life in the real world.

As a student wanting to learn about the field of mathematics, it is your responsibility to read the textbook, submit assignments on the due dates, study for the exams, participate in classroom discussions and activities, attend class, and enjoy yourself while experiencing the real world of mathematics. It is the student’s responsibility to keep copies of all paperwork, including this syllabus, handouts and all assignments.

As I believe that engaging the students in the learning is essential for teaching to be effective, you will spend a portion of class time involved in problem solving activities. You will be involved in discussions with your classmates and your instructor. As you will want to contribute to these discussions, you will need to come to class prepared to discuss, analyze and evaluate information from your text and other assigned readings.

EGLS₃ -- Evaluation for Greater Learning Student Survey System

At Houston Community College, professors believe that thoughtful student feedback is necessary to improve teaching and learning. During a designated time, you will be asked to answer a short online survey of research-based questions related to instruction. The anonymous results of the survey will be made available to your professors and division chairs for continual improvement of instruction.

Look for the survey as part of the Houston Community College Student System online near the end of the term.

Course Outline

Chapter 9 Introduction to Real Numbers and Algebraic Expressions

- 9.1 Introduction to Algebra
- 9.2 The Real Numbers
- 9.3 Addition of Real Numbers
- 9.4 Subtraction of Real Numbers
- 9.5 Multiplication of Real Numbers
- 9.6 Division of Real Numbers
- 9.7 Properties of Real Numbers
- 9.8 Simplifying Expressions; Order of Operations

Chapter 10 Solving Equations and Inequalities

- 10.1 Solving Equations: The Addition Principle
- 10.2 Solving Equations: The Multiplication Principle
- 10.3 Using the Principles Together
- 10.4 Formulas
- 10.5 Applications of Percent
- 10.6 Applications and Problem Solving
- 10.7 Solving Inequalities
- 10.8 Applications and Problem Solving with Inequalities

Chapter 12 Polynomials: Operations

- 12.1 Integers as Exponents
- 12.2 Exponents and Scientific Notation
- 12.3 Introduction to Polynomials
- 12.4 Addition and Subtraction of Polynomials
- 12.5 Multiplication of Polynomials
- 12.6 Special Products
- 12.7 Operations with Polynomials in Several Variables
- 12.8 Division of Polynomials (monomial divisors only)

Chapter 13 Polynomials: Factoring

- 13.1 Introduction to Factoring
- 13.2 Factoring Trinomials of the Type $x^2 + bx + c$
- 13.3 Factoring $ax^2 + bx + c$, $a \neq 1$: The Foil Method
- 13.4 Factoring $ax^2 + bx + c$, $a \neq 1$: The $ac -$ Method
- 13.5 Factoring Trinomial Squares and Differences of Squares
- 13.6 Factoring: A General Strategy

Chapter 8 Geometry

- 8.1 Basic Geometric Figures
- 8.2 Perimeter
- 8.3 Area
- 8.4 Circles

- 8.5 Volume and Surface Area
- 8.6 Relationships Between Angle Measures
- 8.7 Congruent Triangles and Properties of Parallelograms
- 8.8 Similar Triangles

Chapter 11 Graphs of Linear Equations

- 11.1 Graphs and Applications (Omit applications.)

Chapter 14 Rational Expressions and Equations

- 14.1 Multiplication and Simplifying Rational Expressions
- 14.2 Division and Reciprocals

Fundamentals of Mathematics II (Math 0108/0308)

Student Learning Outcomes	Course Objectives
1. Identify and apply properties of real numbers, and perform accurate arithmetic operations with numbers in various formats and number systems.	1.1 add, subtract, multiply and divide real numbers and manipulate certain expressions. 1.2 solve problems using scientific notation. 1.3 find square roots of perfect square numbers
2. Demonstrate the ability to manipulate/simplify algebraic expressions, and to classify and solve algebraic equations with appropriate techniques.	2.1 solve problems using equations and inequalities. 2.2 factor polynomials using the techniques of the greatest common factor, grouping, difference of two squares and special trinomials. 2.3 multiply and divide, and simplify rational expressions.
3. Demonstrate the use of elementary graphing techniques.	3.1 plot ordered pairs and graph linear equations.
4. Apply basic geometric theorems and formulas to rectangles, squares, parallelograms, triangles, trapezoids, circles, and angles.	4.1 find the perimeter and area of rectangles, squares, parallelograms, triangles, trapezoids and circles; volume and surface area, relations between angle measures, congruent and similar triangles, and properties of parallelograms.

Disclaimer: The rules, policies, terms and guidelines of this syllabus are subject to change and may be updated, corrected, or modified by the instructor, at any time, due to unforeseen circumstances, and changing needs of the class. The student shall be notified of any such changes in the provisions of this document.

Math 0308: Tentative 8 Week Calendar

Weeks 1 and 2	Introduction to Real Numbers and Algebraic Expressions, Solving Equations
Weeks 3 and 4	Solving Equations and Inequalities, Polynomials: Operations
Weeks 5 and 6	Polynomials: Operations, Polynomials: Factoring
Weeks 7 and 8	Rational Expressions, Geometry, Graphs of Linear Equations, Final Exam