



**Division of College Readiness
Developmental Math Department**

<https://learning.hccs.edu/programs/developmental-mathematics>

MATH 0332P: Introductory Algebra | Lecture | #19703

Fall 2019 | 8 Weeks (8-26-2019 to 10-26-2019)

In-Person | Angela Morales 308 | MW 8:00 a.m.-10:50 a.m.

3 Credit Hours | 48 hours per semester

Instructor Contact Information

Instructor: Tibisay Vega

Office: N/A

HCC Email: Tibisay.vega@hccs.edu

Office Phone: 713-718-7056 Leave message

Office Hours: By appointment

Office Location: N/A

Please feel free to contact me concerning any problems that you are experiencing in this course. Your performance in my class is very important to me. I am available to hear your concerns and just to discuss course topics.

Instructor's Preferred Method of Contact

The best way to reach out to me is via e-mail at tibisay.vega@hccs.edu. I will respond to emails within 24 hours.

What's Exciting About This Course

This course has been designed to guide students to the basic skills that are necessary to succeed in a Contemporary Math course, but also to provide students with a general math literacy. While some of the material is the arithmetic and algebra that you would expect to see in a typical math course, we will also be spending a large part of the semester looking at other topics including finance, data representation, and an introduction to logic, all skills that can be used to interpret the world around you.

My Personal Welcome

I warmly welcome you to this course. I look forward to getting to know each of you and help you achieve your goals through this course. You may feel hardships from time to time, but perseverance and communication are the key to success. I would like you to know that I am here to serve you the best way I can.

I thank you in advance for everything that you would do to succeed in this class.

Prerequisites and/or Co-Requisites

MATH 0332P requires either a TSIA ABE level of 5 or 6 **OR** TSIA Math Score 336 – 349 with Intermediate Algebra Diagnostic Score 0 – 3 **OR** Completion of MATH 0106 with a C or better.

MATH 0332P is a prerequisite to MATH 1332

Canvas Learning Management System

This section of MATH 0332P has associated with it a course in [Canvas](https://eagleonline.hccs.edu) (<https://eagleonline.hccs.edu>). However, since this course is a face to face lecture, we will not be using Canvas. HCCS Open Lab locations may be used to access the Internet and Eagle Online Canvas. It is recommended that you **USE [FIREFOX](#) OR [CHROME](#) AS YOUR BROWSER.**

Scoring Rubrics, Sample Assignments, etc.

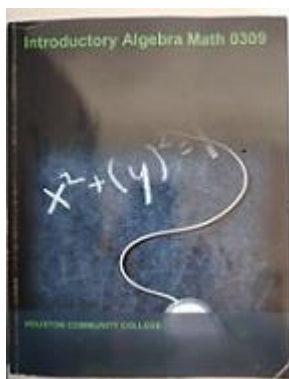
Look in Canvas for the scoring rubrics for assignments, samples of class assignments, and other information to assist you in the course. <https://eagleonline.hccs.edu/login/ldap>

Materials needed

Textbook. Pocket folder (Duo –Tang)- with brads or three- ring binder with pocket dividers, notebook paper, # 2 pencils, sharpener, Three (3) scantrons, graphing paper, ruler, two map colors (blue and red), one (1) Blue Book, and basic calculator.

Instructional Materials

Textbook Information



The textbook listed below is **required** for this course. **Introductory Algebra** (Custom edition by McGraw Hill Publishing).

ISBN: 978-1-26-08493-01 (textbook and access code)

ISBN: 978-1-26-08492-26 (access code with e-book)

Your **Class Code** is :QC36F-RKUT9

Temporary Free Access to E-Book

This course has associated with it a Connect Math course.

To access the Connect Math course, including temporary free access to the online eBook, go to www.connectmath.com and register using the Connect Math Course ID: QC36F-RKUT9 Your **Financial Aid Access Code** is: E2EBC-F8D1B-CFA39-DD880

Instructions for the student:

The Financial Aid Access Code does not add an additional two weeks to your account.

NOTE: This code gives you temporary access to Connect Math for a two-week period. Once the code expires, you will be locked out of your Connect Math account until you purchase a regular Student Access Code. **It is highly recommended that you purchase the Student Access Code BEFORE the two weeks expire** to prevent interruptions with your Connect Math account.

1. To sign up to Connect Math using the Financial Aid Access Code, go to: <https://www-awn.connectmath.com>
2. Click on the "**Sign up now!**" link located under "NEW USER?"
3. Enter your "**Class Code**" and press "**Continue**".
4. Verify that you are registering for the correct class and click on "**Confirm**."
5. Continue with the registration process until your account has been set up successfully.
6. On the Apply Access page, enter the 20-character Financial Aid Access Code and click "**Continue**."
7. Next you will see a page with the date your temporary access expires, click "**Continue**."
8. You will arrive at the My Classes page.
9. You can extend your Connect Math account at any time by selecting "**Extend access**" from the class tile menu and enter your new access code. **You do NOT need to create a new Connect Math account to continue your class.**

If you require technical assistance, please contact Connect Math Support at <https://www.connectmath.com/support/form>

Other Instructional Resources

Tutoring

HCC provides free, confidential, and convenient academic support, including writing critiques, to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate. Visit the [HCC Tutoring Services](#) website for services provided.

Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines, newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at <http://library.hccs.edu>.

Supplementary Instruction

Supplemental Instruction is an academic enrichment and support program that uses peer-assisted study sessions to improve student retention and success in historically difficult courses. Peer Support is provided by students who have already succeeded in completion of the specified course, and who earned a grade of A or B. Find details at <http://www.hccs.edu/resources-for/current-students/supplemental-instruction/>.

Course Overview

Math 0332P: Introductory Algebra is a developmental math course whose topics include real numbers, introduction to Logic, polynomials, basic factoring, linear equations, linear models, percentage models, order of operations, set operations, and an introduction to other topics which may include linear and quadratic modelling and math for financial management. A departmental final examination must be passed with a score of 60% or more in order to pass the course.

Core Curriculum Objectives (CCOs)

Given the rapid evolution of necessary knowledge and skills and the need to consider global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

- **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication.
- **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Program Student Learning Outcomes (PSLOs)

During courses in the developmental math program students will

1. Engage in problem solving strategies, such as organizing information, drawing diagrams, and modeling.
2. Use symbolic representations to solve problems. This includes manipulating formulas, solving equations, and graphing lines.
3. Learn the foundational mathematical skills that will enable a student to successfully complete a college level math course.

Course Student Learning Outcomes (CSLOs)

Upon completion of MATH 0332P, the student will be able to:

1. Identify and apply properties of real numbers and perform accurate arithmetic operations with numbers in various formats.
2. Demonstrate the ability to manipulate/simplify algebraic expressions & classify/solve algebraic equations with appropriate techniques.
3. Demonstrate the use of elementary graphing techniques.
4. Solve basic problems in mathematics of finance.
5. Recognize, examine, and interpret the linear and quadratic equations.
6. Identify sets and set notations and perform set operations.
7. Interpret and analyze various representations of data.
8. Demonstrate the understanding of basic concepts in logic.

Learning Objectives

Upon completion of MATH 0332P, the student will be able to:

1. Add, subtract, multiply and divide real numbers and manipulate certain expressions.
2. Simplify algebraic expressions.
3. Solve problems using equations.
4. Factor polynomials using the techniques of the greatest common factor and grouping.
5. Solve problems using simple interest and compound interest.
6. Plot ordered pairs and graph linear equations.
7. Graph linear inequalities.
8. Find the rate of change of a line & write the equation of a line given slope and y-intercept
9. Model situations with linear and quadratic problems.
10. Identify sets and perform set operations including union, intersection and complement of sets.
11. Understand basic concepts in Logic.
12. Interpret and analyze various representations of data.

Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Math cannot be learned by merely reading or hearing about it, you must spend the time to practice. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class
- Completing assignments
- Participating in class

There is no short cut for success in this course; it requires time and dedication.

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and make up
- Provide the course outline and class calendar which will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

As a student, it is your responsibility to:

- Attend class
- Participate actively by reviewing course material, practicing the material, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Attain a raw score of at least 60% on the departmental final exam
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook](#)

Assignments, Exams, and Activities

In Developmental Math courses, only the departmental midterm and departmental final exam are multiple choice, all other exams are to only contain open ended questions. Throughout the semester students are going to take several in class quizzes, 2 exams, a departmental midterm, and a departmental Final Exam. **If a student misses the midterm (Test #2) or the final exam, there will be no make-up opportunities, but if test #1 or test # 3 is missing your final exam will count twice.**

The Homework will be submitted online through ConnectMath. Keep your calculations in your binder as part of your homework grade.

Quizzes are in class assignments and cannot be made up. No Exceptions. It is the responsibility of the student to get with the instructor concerning any missed assignments. **Three (3) of the lowest quiz grades will be dropped.**

In-Class Activities

Group assignments will be done in almost every class meeting period. Groups are formed from the students present to solve one or more questions. Board participations will also be implemented during class.

Midterm and Final Exam

All students will be required to take a cumulative departmental midterm exam consisting of 25 multiple choice questions and a cumulative departmental final exam consisting of 33 multiple-choice questions. Students must provide their own Scantron forms. Any student that does not complete at least 60% (20 of 33) of the items correctly on the final exam will receive a failing grade in the course (departmental decision). If a student does complete at least 60% of the items correctly on the final exam, their grade will be determined by the grading formula stated below.

Grading Formula

Exam 1	15% of your grade
Midterm(T2)	15% of your grade
Exam 3	15% of your grade
Homework	15% of your grade
In-Class Activities	10% of your grade
Final Exam	30% of your grade

At the end of the semester, your overall grade will be computed as follows:

Class Grade = $.15 * (\text{Exam 1 Grade}) + .15 * (\text{Midterm 2 Grade}) + .15 * (\text{Exam 3 Grade}) + .15 * (\text{Homework Grade}) + .10 * (\text{Activities Grade}) + .30 * (\text{Final Exam Grade})$

Grade	Percent
A	90% +
B	80% - 89%
C	70% - 79%
F/IP	0% - 69%

Note: Any student that has failed this course for the first time is eligible to receive an IP. Any subsequent failures will receive an F.

HCC Grading Scale can be found on this site under Academic Information:
<http://www.hccs.edu/resources-for/current-students/student-handbook/>

Course Calendar

Week	Dates	Topic/ What's due
1	8/26 – 8/28	Syllabus & Chapter 1 1.1 Introduction to Set Theory (omit equal vs. equivalent, omit one to one correspondence) 1.2 Subsets and set Operations (omit set subtraction) 1.3 Statements and Quantifiers 1.4 Truth Tables (tables with two components only) Chapter 2 2.2 Introduction to Algebra and the Set of Real Numbers 2.6 Multiplication and Division of Real Numbers 2.4 Addition of Real Numbers 2.5 Subtraction of Real Numbers
2	9/2 Labor Day NO SCHOOL 9/4	2.3 Exponents, square roots (perfect square radicand only), and the Order of operations 2.7 Properties of Real Numbers and Simplifying Expressions 3.1 Translating phrases to Algebra. Addition , Subtraction, Multiplication , and Division Properties of Equality
3	9/9-9/11	Exam # 1 Open ended test 3.1 Addition , Subtraction, Multiplication , and Division Properties of Equality 3.2 Solving Linear Equations 3.4 Formulas (omit geometry applications) 4.1 Rectangular Coordinate System 4.2 Slope of a Line and Rate of Change (omit parallel and perpendicular lines) 4.3 Slope- Intercept Form of a Linear Equation (omit parallel and perpendicular lines)
4	9/16- 9/18	4.2 Slope of a Line and Rate of Change (omit parallel and perpendicular lines) 4.3 Slope- Intercept Form of a Linear Equation (omit parallel and perpendicular lines) 4.5 Introduction to Modeling I linear and quadratic models only, omit exponential models)

		Mid-Term Exam Bring Scantron /calculator
5	9/23 – 9/25	<p>5.1 Multiplying and Dividing Expressions with Common Basis (omit applications of exponents)</p> <p>5.2 More Properties of exponents</p> <p>5.3 Definitions of b^0 and b^{-1} (only b^0, omit b^{-1})</p> <p>5.5 Addition and Subtraction of Polynomials (omit polynomials and applications to geometry)</p> <p>5.6 Multiplication of Polynomials and Special Products (omit applications to geometry)</p> <p>5.7 Division of Polynomials (Monomials divisors only)</p> <p>5.8 Greatest Common Factor and Factor by Grouping</p> <p>5.9 Factoring Trinomials of the form $x^2 +bx +c$ When $A=1$</p>
6	9/30 – 10/2	<p>5.7 Division of Polynomials (Monomials divisors only)</p> <p>5.8 Greatest Common Factor and Factor by Grouping</p> <p>5.9 Factoring Trinomials of the form $x^2 +bx +c$ When $A=1$</p> <p>6.1 Percent, fraction , and Decimals</p> <p>6.2 Percent Equations and Applications (omit applications of percent equations)</p> <p>6.3 Applications of Sales Tax, Commission, Discount, markup, and Percent increase and Decrease</p> <p>6.4 Simple and Compound Interest</p>
7	10/7 – 10/9	<p>6.3 Applications of Sales Tax, Commission, Discount, markup, and Percent increase and Decrease</p> <p>6.4 Simple and Compound Interest</p> <p>7.1 Tables ,Bar Graphs, Pictographs, and Line Graphs (interpreting charts and graphs required, omit construction of charts and graphs)</p> <p>Exam 3 Open ended test</p>

8	10/14 – 10/16 @ 8:00 am	7.2 Mean, Median and Mode (omit weighed mean) 7.4 Measures of Position (Percentile only, omit quartiles and boxplots) Questions on final exam review Final Exam . Mandatory No make-up Bring Scantron/ Blue book and calculator
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Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

Instructor's Practices and Procedures

Missed Assignments

Throughout the semester students are going to take several in class quizzes, 2 exams, a departmental midterm, and a departmental Final Exam. If a student misses the midterm or the final exam, there will be no make-up opportunities for them unless acceptable documentation is provided within one week. Otherwise missing assignment will be graded zero.

It is the responsibility of the student to get with the instructor concerning missed assignments.

Academic Integrity

Cheating in class during exams by any means will not be tolerated. If a student is identified cheating on a test, it will be marked 'VOID' on paper and the student will receive a Zero as a grade.

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<http://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>

Attendance Procedures

Class attendance is checked daily. I always expect my students to be on time in my class. It is essential to concentrate and comprehend the subject. In this class, if a student arrives more than 10 minutes late, he/she will be marked "Late" on the attendance. If a student leaves early without an excuse, he/she will be marked "Left early" on the attendance. When a student accumulates three (3) "Late" and/or "Left early," this will count as one (1) absence. It is your responsibility to drop the course for nonattendance. If you do not drop the course and stop attending the class, you may get an FX grade. A total of four (4) absences throughout the semester will result in being dropped from the course. Please let me know in advance when you will be absent. If you are absent because of an emergency, email me to keep me inform. One bonus point will be given to those who do not miss any class.

The last day to withdraw from this course is September 30, 2019.

Student Conduct

Students are always expected to conduct themselves in a civilized manner by respecting the instructor and their fellow classmates. Any behavior that might disturb others and/or disrupt the learning environment is not allowed. Please be kind and considerate of fellow classmates and instructor.

Instructor's Course-Specific Information (As Needed)

Students can expect grades and feedback after they submit coursework and/or taken a major test. Major grades will be posted on Canvas. Final Exam average will be posted on People Soft. Because of FERPA I am not able to email you your grades. Read the Student handbook for further information.

Electronic Devices

Students are not allowed to use recorders, laptops, cell phones, and any other electronics unless they have permission.

Students with disabilities who need to use a recording device as reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations. Documentation must be provided to the instructor to be aware of the accommodation.

Per department policy, Math 0309 students will be allowed the use of a basic calculator during the departmental midterm exam and the departmental final exam. Students should provide their own basic calculator, scientific calculators and graphing calculators are prohibited on the departmental midterm and departmental final.

The use of any calculator during any exam other than the departmental midterm exam and departmental final exam is prohibited and will be considered cheating (see academic integrity section above)

Note: A basic calculator is defined as a nonprogrammable calculator that is not capable of accessing the internet or interfacing with any other device, has a single display, and has math operation keys that do not exceed addition, subtraction, multiplication, division, square root, percent, and negation (plus/minus)

Developmental Math Program Information

For more information on the developmental math program visit:

<https://learning.hccs.edu/programs/developmental-mathematics>

HCC Policies

Here's the link to the HCC Student Handbook <http://www.hccs.edu/resources-for/current-students/student-handbook/> In it you will find information about the following:

- Academic Information
- Academic Support
- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- disAbility Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

EGLS³

The EGLS³ (Evaluation for Greater Learning Student Survey System) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS³ surveys are only available for the Fall and Spring semesters. -EGLS³ surveys are not offered during the Summer semester due to logistical constraints.

<http://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/>

Campus Carry Link

Here's the link to the HCC information about Campus Carry:

<http://www.hccs.edu/departments/police/campus-carry/>

HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go [to HCC Eagle ID](#) and activate it now. You may also use Canvas Inbox to communicate.

Housing and Food Assistance for Students

Any student who faces challenges securing their foods or housing and believes this may affect their performance in the course is urged to contact the Dean of Students at their

college for support. Furthermore, please notify the professor if you are comfortable in doing so.

This will enable HCC to provide any resources that HCC may possess.

Office of Institutional Equity

Use the link below to access the HCC Office of Institutional Equity, Inclusion, and Engagement (<http://www.hccs.edu/departments/institutional-equity/>)

disAbility Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <http://www.hccs.edu/support-services/disability-services/>

Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross
Director EEO/Compliance
Office of Institutional Equity & Diversity
3100 Main
(713) 718-8271
Houston, TX 77266-7517 or Institutional.Equity@hccs.edu
<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/>

Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>

Department Chair Contact Information

College - Level Math Courses

Chair of Math	Susan Fife	SW Campus	713-718-7241	Stafford, Scarcella, N108
- Admin. Assistant	Tiffany Pham	SW Campus	713-718-7770	Stafford, Scarcella, N108
- Admin. Assistant	Christopher Cochran	SW Campus	713-718-2477	Stafford, Scarcella, N108
Math Assoc. Chair	Jaime Hernandez	CE Campus	713-718-7772	San Jacinto Building, Rm 369
Math Assoc. Chair	Ernest Lowery	NW Campus	713-718-5512	Katy Campus Building, Rm 112
Math Assoc. Chair	Mahmoud Basharat	NE Campus	713-718-2438	Codwell Hall Rm 105

Developmental Math Courses

Chair of Dev. Math	Jack Hatton	SE Campus	713-718-2434	Felix Morales Building, Rm 124
- Admin. Assistant	Carmen Vasquez	SE Campus	713-718-7056	Felix Morales Building, Rm 124
Dev. Math Assoc. Chair	Hien Nguyen	SE Campus	713-718-2440	Felix Morales Building, Rm 124
Dev. Math Assoc. Chair	Adnan Ulhaque	SW Campus	713-718-5463	Stafford, Learning Hub, Room 208
Technical Support Specialist	Douglas Bump	SE Campus	713-718-7317	Angela Morales Building, Rm 101

For issues related to your class, please first contact your instructor.

If you need to contact departmental administration, then contact the appropriate Associate Chair.

If further administrative contact is necessary, then contact the appropriate Department Chair.