



**Division of Mathematics
Mathematics Department**

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

Math 1314: College Algebra | Lecture | #19298
Spring 2020 | 16 Weeks (01.21.2020-5.17.2020)
In-Person | West Loop Room C224 | MW 7:00 p.m.- 8:20 p.m.
3 Credit Hours | 48 hours per semester

Instructor Contact Information

Instructor: Mohamma Abbasi

Email: mohammad.abbasi@hccs.edu

Office: **West Loop, Room C 241**

Office Hours **M – W 5:00 p.m. – 5:30p.m.**

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 the concerns and just to discuss course topics.

Instructor's Preferred Method of Contact

HCC Email address required. I will respond to emails within 24 hours Monday through Friday; I will reply to weekend messages on Monday mornings. Please send me email through HCC email

What's Exciting About This Course

My Personal Welcome

Welcome to t the H.C.C. I will be instructor for this class. The course is not particularly difficult. The main thing that you must do is keeping up with the reading the book, doing homework, and taking the quizzes and tests according to the schedule that I did provide for you.

Prerequisites and/or Co-Requisites

Prerequisites: A grade of C or better in Math 0312 or its equivalent or an acceptable placement score. A grade of C or better in Math 0314 or its equivalent or an acceptable placement score.

Co-Requisites: MATH 0314 is a co-requisite to MATH 1314. Since MATH 0314 is co-requisite with MATH 1314, withdrawing from either MATH 0314 or Math 1314 will necessitate

withdrawal from the other as well. Please carefully read and consider the repeater policy in the [HCCS Student Handbook](#).

Canvas Learning Management System

This section of MATH 1314 will use [Canvas](https://eagleonline.hccs.edu) (<https://eagleonline.hccs.edu>) to supplement in-class assignments, exams, and activities.

HCCS Open Lab locations may be used to access the Internet and Canvas. **USE [FIREFOX](#) OR [CHROME](#) AS THE INTERNET BROWSER.**

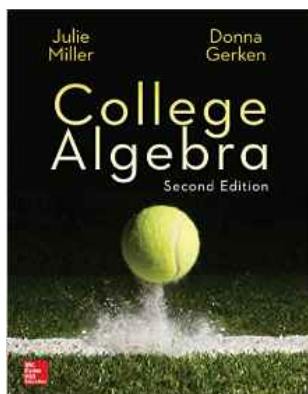
HCC Online Information and Policies

Here is the link to information about HCC Online classes including the required Online Orientation for all fully online classes: <http://www.hccs.edu/online/>

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>

Textbook Information



The textbook listed below is **required** for this course.

College Algebra Math 2nd ed. (by Julie Miller and Donna Gerken, McGraw Hill Publishing, 2016).

ISBN: 9781264048007 (textbook and access code for Connect Math)

ISBN: 9781264048014 (access code with e-book)

It is included in a package that contains the text as well as an access code and are found at the [HCC Bookstore](#). You may either use a hard copy of the book or the e-book through Connect Math.

Temporary Free Access to E-Book

For temporary free access to Connect Math and the online eBook, go to www.connectmath.com and register using the Connect Math Course ID: *****-*****

Assessment/Make-up and Grading

**You benefit for attending class regularly. You earn rewards as follows:
Perfect attendance (0 absent and 0 tardy) = 5. The point will add to the final exam grade.**

The students receive 10 points as extra credit assign to each test with perfect attendance between two tests and doing test review.

Any student who arrives 15 minutes after the class has begun or leaves before the class is dismissed without any prior approval of the instructor is considered absent.

Any student who have more than 6 hours absents is entitled to be dropped.

Exam

- There will be four major Tests, Homework, and quizzes.
- Comprehensive 33 multiple-choice Questions Departmental Final Exam
- One of the lowest grades in your major test will be drop.
- You must take the Final Exam in order to pass the course

There will be no makeup, since the lowest test grade will be drop.

In Math 1314 College Algebra students cannot use calculator

Final Exams

All students will be required to take a cumulative departmental Final exam consisting of 33 multiple choice questions. Students must provide their own Scantron. Students will be provided with a departmental study guide for the final exam which will be covered during the MATH DAYS.

The sum of best three test score 60 %
Homework and Quizzes Ave online + (pop quizzes during the class) 15%
Comprehensive Departmental Final Exam 25%

Grading Scale

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

00 - 59 = F

Note: The instructor cannot assign a grade of W.

Calendar

Jan 22 Sec 1.4

Jan 26 Pre- test Due Date

Jan 27 Sec 1.5

Jan 29 Sec 1.6

Feb 3 Sec 1.7

Feb 5 Test one Review

Feb 9 Due date Homework and Quiz # 1 (Chapter one)

Feb 10 Test # 1

Feb 12 Sec 2.2

Feb 17 President Day Holiday

Feb 19 Sec 2.3

Feb 24 Sec 2.4

Feb 26 Sec 2.5

Mar 2 Sec 2.6

Mar 4 Sec 2.7, 2.8

Mar 9 Test Two Review

Mar 10 Due Date Homework and Quiz # 2 (Chapter Two)

Mar 11 Test Two

Mar 16 – 22 Spring Break Holiday

Mar 23 Sec 3.1

Mar 25 Sec 3.2

Mar 30 Sec 3.3

Apr 1 Sec 3.4

Apr 6 Last Day for Students Administrative withdrawal

Apr 6 Sec 3.5

Apr 8 Sec 3.6

Apr 12 Due Date Homework, and Quiz # 3 (Chapter Three)

Apr 13 Test # 3, Chapter three

Apr 15 Sec 4.2

Apr 20 Sec 4.3

Apr 22 Sec 4.4

Apr 27 Sec 4.5, 5.1

Apr 29 Sec 5.4, 6.1, 6.3

May 3, Due Date Homework and Quiz # 4 (chapters 4,5, and 6)

May 4 Test four Reviews

May 6 Test # 4

May 8, 9 HCC Math Day, Math 1314 Final Exam Review Session on Campus
The time and location will be announced

May 11 Comprehensive Final Exam

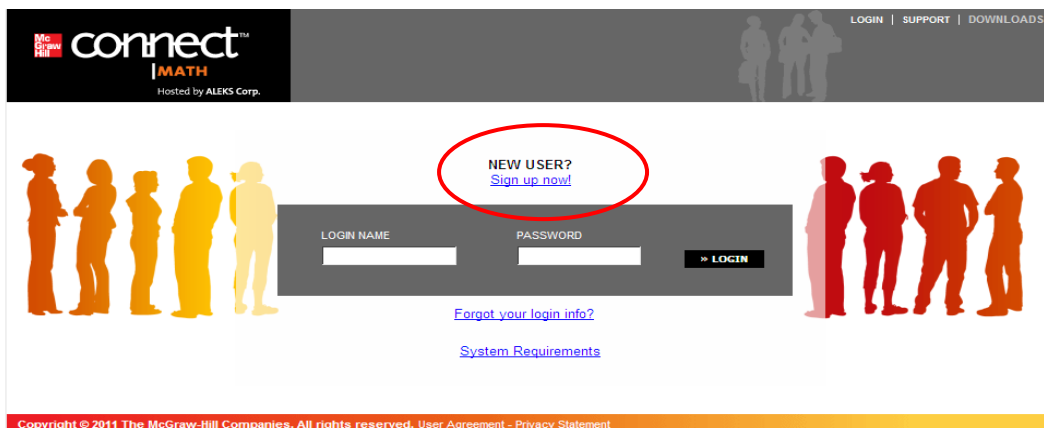
Connect Math Student Registration Instructions

Before you begin, you will need:

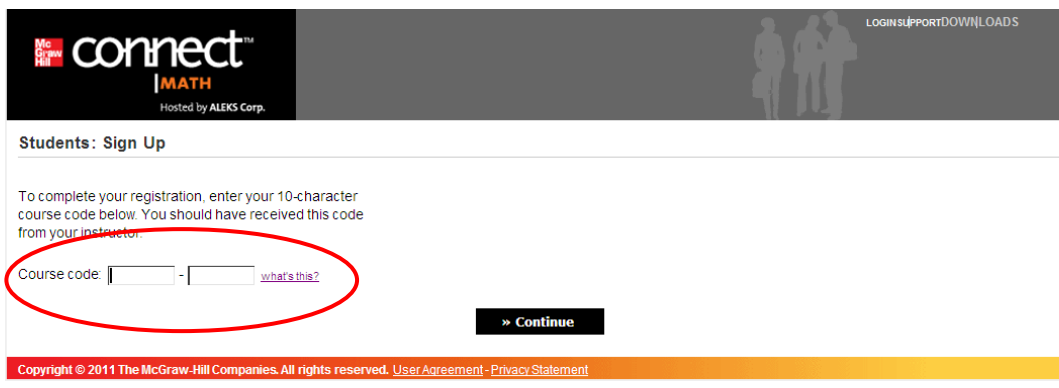
- Your e-mail address
- A 10-digit Course Code supplied by your Instructor

Step 1: Go to the **Connect Math** website by typing in the following address: <http://www.connectmath.com> on your web browser.

Step 2: Click on "SIGN UP NOW!"



Step 3: Enter your 10-digit "Course Code" AND click "Continue."




Step 4: Confirm Course Information and Click “Continue”

MATH
Hosted by ALEKS Corp.

1 Confirm Course Code 2 Personal Information 3 Account Creation 4 Registration Complete

Confirm Enrollment Information

You are about to register to use Connect Math in the following course. Please check the course details carefully. If the information is correct, click “Continue.” If the information is incorrect, click “modify” to enter another course code.


 Course: Math 1442 - 011 (Summer I 2011) – 90842
 Book: Elementary Statistics: A Step-By-Step Approach, 8th Ed., Bluman
 Instructor: Prof. Rios
 School: Palo Alto College [\(modify\)](#)

» Continue

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Step 6: Enter your name and school e-mail address. Then choose a Password, click in the checkbox, and click “Continue.”

Enter Your Personal Information

Fields marked with “*” are required.

Enter Your Personal Information

First Name:
 Initial:
 Last Name:

Optional - Enter Your E-mail Address and Student ID Number
 If you enter an e-mail address, we will send you a confirmation of your ALEKS login name and password.
 E-mail address:
 If you have a student ID number that was assigned to you by your school, you can enter it below.
 Student ID #: [what's this?](#)

Review and Accept ALEKS Terms of Service

[ALEKS User Agreement](#) **** IMPORTANT **** [Print this document](#)

This is a legal agreement (“Agreement”) between you and, if applicable, the organization you represent (“You”) and ALEKS Corporation, a Delaware corporation with an office at 15641 Red Hill Avenue, Tustin, CA 92780 (doing business in California as ALEKS Educational Systems Corp), its affiliates and subsidiaries (collectively, “ALEKS”).

This Agreement covers:

I have read and agree to the terms of the ALEKS User Agreement.

Continue

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 ALEKS® is a registered trademark of ALEKS Corporation. [Privacy Statement](#) Updated: 6/22/08

Step 7: Registration Complete. Write Down Your Login and Password, click “Continue.”

MATH
Hosted by ALEKS Corp.

1 Confirm Course Code 2 Personal Information 3 Account Creation 4 Registration Complete

Registration Complete

Thank you. You are now registered to use Connect Math. If you provided us with an e-mail address, you will receive your login information by e-mail.

» Continue

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Access Connect Math again, Go to <http://www.connectmath.com> and enter your Connect login name and password and click on “LOGIN.”

your Login Name: _____

your Password: _____

Instructional Materials

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

This course is designed as a review of advanced topics in algebra for science and engineering students who plan to take the calculus sequence in preparation for their various degree programs. It is also intended for non-technical students who need college mathematics credits to fulfill requirements for graduation and prerequisites for other courses. It is generally transferable as math credit for non-science majors to other disciplines.

Core Curriculum Objectives (CCOs)

Given the rapid evolution of necessary knowledge and skills and the need to take into account 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:** 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.
- **Quantitative and Empirical Literacy:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Program Student Learning Outcomes (PSLOs)

Students in the Mathematics Program 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. Build the foundational mathematical skills that will enable a student to successfully complete a college level mathematics course.

Course Student Learning Outcomes (CSLOs)

Upon completion of MATH 1314, the student will be able to:

1. Demonstrate and apply knowledge of properties of functions, including domain and range, Operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices

Learning Objectives

Upon completion of MATH 1314, the student will be able to:

1. Solve Quadratic Equations in one variable by the method of factoring, square root property, completing the square and the quadratic formula.

2. Solve radical equations, fractional equations, and equations of quadratic form.
3. Solve linear inequalities and linear equations involving absolute value, state the solution in interval notation, and graph the solution
4. Solve non-linear (quadratic and rational) inequalities, state the solution in interval notation, and graph the solution.
5. Solve exponential and logarithmic equations.
6. Solve systems of linear and nonlinear in two variables.
7. Find the distance and midpoint between two points in the Cartesian Plane.
8. Recognize the equation of a straight line, graph the equation of a straight line, find the slope and intercepts of a line, know the relationship between the slopes of parallel and perpendicular lines, and be able to determine the equation of a line
9. Graph linear functions, quadratic functions, piecewise-defined functions, absolute value functions, polynomial functions, rational functions, exponential functions, and logarithmic functions.
10. Understand vertical and horizontal shifts, stretching, shrinking, and reflections of graphs of functions.
11. Recognize the equation of a circle, sketch the graph of a circle, and find the equation of a circle.
12. Determine the rational zeros of a polynomial.
13. Apply the definition of a function, determine the domain and range of a function, evaluate expressions involving functional notation, simplify expressions involving the algebra of functions, graph functions by plotting points, and use the definition.
14. Understand the inverse relationship between the exponential and logarithmic functions.
15. Perform operations with matrices.
16. Solve and apply systems of linear equations using matrices.

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. Additional time will be required for written assignments. 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 in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

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 making up assignments
- Provide the course outline and class calendar that 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 in person and/or online
- Participate actively by reviewing course material, interacting with classmates, 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
- Be aware of and comply with academic honesty policies in the HCCS Student Handbook

Assignments, Exams, and Activities

Final Exam Review Sessions: HCC MATH DAYS

The Math Department will offer several Final Exam Review sessions (i.e., **HCC Math Days**) for this course near the end of the semester (Fall and Spring semesters only). We encourage you to attend at least one of these sessions as you prepare for the comprehensive Final Exam. Your professor will provide you with more information regarding HCC Math Days locations and session times later in this semester.

While the full-time Math Department faculty leading these review sessions are prepared to answer students' questions on a variety of course topics, the **Final Exam Study Guide** will provide the basis for the HCC Math Days sessions. Therefore, to get the most out of these review sessions, be sure review and to work through the **Final Exam Study Guide** before you attend the review session(s). Please ask your professor if you have any questions regarding these sessions. Finally, the Math 1314 **Final Exam Study Guide** and the **dates** for the Math Days review sessions are located at:

<https://cofinite.com/MathDays/Math1314.php>

Grading Formula

Students can use mymathloab and, Canvas, to check their grades.

Incomplete Policy:

In order to receive a grade of Incomplete ("I"), a student must have completed at least 85% of the work in the course. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.

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

Course Calendar

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

1. If you missed one and only one exam, it will be drop as a lowest test grade.
2. The final exam will not replace a low exam grade since the lowest test grade will be drop.
3. If you missed the final exam, your grade on the final exam will be 0.
4. The final exam cannot be given early because "I have to be gone during the final".
5. There is no retake of any exam.
6. There is no extra credit work given to "improve my grade".

Academic Integrity

All forms of academic dishonesty including, but not limited to cheating, plagiarism, and collusion are serious offenses. Possible consequences for academic dishonesty include a grade a 0 or F in the particular assignment, failure in the course, and/or recommendations for probation or dismissal from the institution.

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

I will take attendance by checking your weekly sign-ins into Canvas. I expect you to access the homework through canvas on a regular basis. The last day to withdraw 11/1/2019.

Student Conduct

I expect all students to be civil to each other. Posted comments or discussions should be free of any demeaning language. Students who violate this rule may be denied access to further postings and the matter can be referred to the Dean.

Electronic Devices

The use of electronic devices by students in the classroom is up to the discretion of the instructor. Any use of such devices for the purposes other than student learning is strictly prohibited unless authorized as an appropriate ADA accommodation from the ADA Counselor. **The use of a calculator during any exam, including the final exam, is prohibited.**

Mathematics Program Information

- HCC Math Student Organizations: Mu Alpha Theta: Application: <https://www.hccs.edu/resources-for/current-students/stem--science-technology-engineering--mathematics/stem-clubs/mu-alpha-theta-application/>

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.