HCC | HOUSTON COMMUNITY COLLEGE

Division of College Readiness
Developmental Mathematics Department
https://learning.hccs.edu/programs/developmental-mathematics

Math 0324: Corequisite Support of Math 1324 | Lecture | CRN 18998
Spring 2020 | 16 Weeks (1/21/2020-5/17/2020)
In-Person | West Loop - Room C224 | MW 11 a.m.-12:20 p.m.
3 Credit Hours | 48 hours per semester

Instructor Contact Information

Instructor: Houssam Kalajo   HCC Email: houssam.kalajo@hccs.edu
Office Location: West Loop, Room C256 – B7   Office Hours: Mo/We: 8 – 8:45 am,
                                                                      Tu/Th 10 – 10:45 am, 12:30 – 1:20 pm
                                                                                        (By appointment)

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
I will respond to emails within 24 hours Monday through Friday; I will reply to weekend messages on Monday mornings.

What's Exciting About This Course
Overall, math is a subject which requires practice, and, in math, logic is a much-needed thing. This makes math a very interesting subject. The joy of seeing what math can do, not just how it is done.
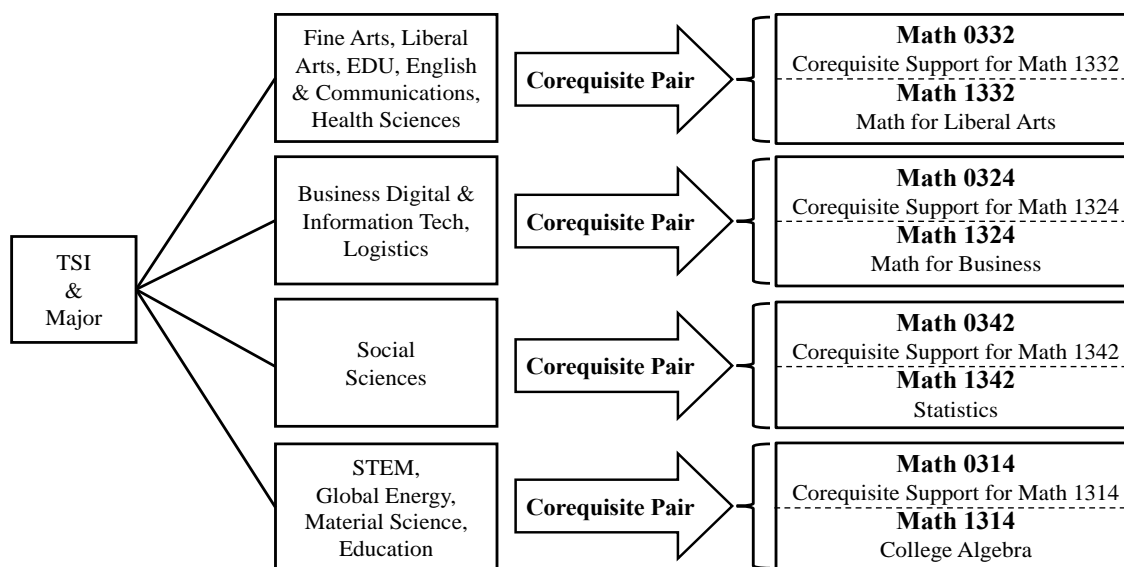
My Personal Welcome

Welcome to Math 0324. I'm delighted that you have chosen this course! I will present the information in the most exciting way I know, so that you can grasp the concepts and apply them now and hopefully throughout your life.

As you read and wrestle with new ideas and facts that may challenge you, I am available to support you. The fastest way to reach me is by my HCC email. My goal is for you to walk out of the course with a better understanding of yourself and of human behavior. So please visit me or contact me by email whenever you have a question.

Prerequisites/Corequisites

TSIA ABE level 5 or 6; TSIA Math Score 336 – 349 with Intermediate Algebra Diagnostic Score 0 – 3; Math 0106: Pass with "C" or better.

Corequisites: MATH 0324 is a corequisite support course for MATH 1324. Students should be aware that sections of these courses are **LINKED**. Therefore, developmental math students who enroll in Math 0324 must also enroll in the linked section of Math 1324 (in the same semester). Developmental students **must maintain satisfactory attendance in BOTH** Math 0324 and Math 1324. If a developmental student withdraws or drops from one course in the corequisite pair, then he/she will be dropped from the other linked course. Corequisite courses must be taken during the same semester. Please carefully read and consider the repeater policy in the HCCS Student Handbook.

TSI & Major		Corequisite Pair	
	Fine Arts, Liberal Arts, EDU, English & Communications, Health Sciences	Corequisite Pair	**Math 0332** — Corequisite Support for Math 1332 / **Math 1332** — Math for Liberal Arts
	Business Digital & Information Tech, Logistics	Corequisite Pair	**Math 0324** — Corequisite Support for Math 1324 / **Math 1324** — Math for Business
	Social Sciences	Corequisite Pair	**Math 0342** — Corequisite Support for Math 1342 / **Math 1342** — Statistics
	STEM, Global Energy, Material Science, Education	Corequisite Pair	**Math 0314** — Corequisite Support for Math 1314 / **Math 1314** — College Algebra

Canvas Learning Management System

This section of MATH 0324 will use Eagle Online Canvas (https://eagleonline.hccs.edu) to supplement in-class assignments, exams, and activities.

Eagle Online Canvas: Your grades and some documents for the class will be available in Eagle Online Canvas. You should check the site a few times each week.

- The Eagle Online Canvas site is http://eagleonline.hccs.edu
- Your login is your HCC email user name including @hccs.edu
- Your password is your HCC email password
- For problems using or accessing Canvas, visit the Technical Support Webpage at https://www.hccs.edu/online/technical-support/, call at 713.718.5275 or email hcc.online@hccs.edu

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**.**

Instructional Materials

Textbook Information

There is no additional textbook requirement for the class. However, students must have access to a copy Corequisite Support for Business Math workbook – which is available from campus bookstores or MyLab Math. In addition to the workbook, students need access to college math textbook: Mathematics with Applications in the Management, Natural and Social Sciences; 12th ed.; Margaret Lial, Thomas Hungerford, John Holcomb, Jr., Bernadette Mullins. ISBN-13: 978-0134767628.

Temporary Free Access to E-Book

For temporary free access to MathLab and the online eBook, go to canvas and click on the MyLab and Mastering link on the left frame. This link will take you to the website where you can and register without a course ID.

Other Instructional Resources

Students must have access to the Corequisite Support for Business Math workbook and Math 1324 textbook. Any additional supplemental material will be provided by the instructor as needed.

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 help students with basic math concepts required to be successful in Math 1324. Topics include simplify fractions, conversion between decimal and percent, translate English phrases into algebraic expressions, terminology associated with sets, find subset, evaluate factorial expressions, understanding sample space, outcomes and events of a probability experiment, use counting techniques, write, interpret and plot order pairs, interpret slope, solve linear equations in one variable, translate sentences into equations, solve applications involving linear equations in one variable, solve linear inequalities in one variable, translate and solve applications involving linear inequalities in one variable.

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 0324, the student will be successful in MATH 1324 and able to:

1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.

2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.

3. Apply basic matrix operations, including linear programming methods, to solve application problems.

4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.

5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

Learning Objectives

Upon completion of MATH 0324, the student will be able to:

1. Be able to graph systems of linear equations in two variables.
2. Be able to solve systems of linear equations using Gauss-Jordan elimination.
3. Be able to add, subtract, and multiply matrices.
4. Be able to find the inverse of a square matrix.
5. Find simple and compound interest.
6. Find the future value of a given annuity.
7. Find the monthly payment and the total interest for a given simple interest amortized loan.
8. Be able to graph systems of linear inequalities in two variables.
9. Use the graphical method for solving a linear programming problem.
10. Use the simplex method for solving standard maximization and standard minimization problems.
11. Be able to perform the basic set operations.
12. Be able to use the multiplication principle, permutations and combinations in counting arguments.
14. Calculate basic probabilities using classical methods.
15. Calculate conditional probabilities.
16. Use expected values in real-world applications.
17. Use the binomial distribution to model and analyze probability experiments.

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
- Attain a raw score of at least 50% on the departmental final exam
- Be aware of and comply with academic honesty policies in the HCCS Student Handbook

Assignments, Exams, and Activities

Homework Assignments

This class uses *MyMathLab* for reviewing course-related materials and completing online exercises. This third-party Learning Management System (LMS) has been integrated into Eagle Online Canvas. The first time you attempt to log on to *MyMathLab,* you will be required to register. After you complete your registration, you will be able to log into the course homework system directly from Eagle Online Canvas. You will be able to see your homework (and quiz) grades from the Eagle Online Canvas Grade Book.

Exams

There will be four in-class major examinations plus the final exam. Each exam is worth 100 points. Before each exam, please clear your desk of all material except pencils/pens, erasers, and scratch work. In addition, please do not share any material during an exam.

Final Exam

All students will be required to take a comprehensive final exam.

In-Class Activities

In-classes activities consist of a variety of approaches. For examples, worksheets, projects, videos, group work, participation in activities during class etc.

Grading Formula

Your course grade will be computed as follows:

Exam 1	10% of your grade
Exam 2	10% of your grade
Exam 3	10% of your grade
Exam 4	10% of your grade
Homework (MyLab)	25% of your grade
In-Class Activities	25% of your grade
Final exam	20% of your grade

One lowest major exam out of 4 will be dropped.

Final Average Score = Average of 3 highest exams out of 4 X 0.30 + HWK (MyLab) X 0.25 +In-Class Activities X 0.25 + Final Exam X 0.20

Grade	Overall Percentage
A	90% +
B	80%-89%
C	70%- 79%
IP	<70% first time
F	<70% not first time
FX	Excessive absence

Developmental Math Department Grading Policy:

Further support will be recommended for students who pass this class and do not pass the college level class.

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	Topic
1	Graphs and Equations of Lines
2 and 3	Nonlinear Functions
4	Exam 1
5 and 6	Systems of Linear Equations
7 and 8	Linear Programming
9	Exam 2
10	Sets and Probability
11	Exam 3
12	Probability Distributions
13	Mathematics of Finance
14	Exam 4
15	Final Review
16	Final Exam

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

Exams must be taken on the specified day. *No MAKE-UP* examinations will be given. The final examination grade will be substituted for one missed test only, *regardless of the reason*. If a second test is missed, the score for that test is zero.

Academic Integrity

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. What that means is: If you are charged with an offense, pleading ignorance of the rules will not help you. 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. "Scholastic dishonesty": includes, but is not limited to, cheating on a test, plagiarism, and collusion.

Cheating on a test includes:
- Copying from another students' test paper;
- Using materials not authorized by the person giving the test;
- Collaborating with another student during a test without authorization;
- Knowingly using, buying, selling, stealing, transporting, or soliciting in whole or part the contents of a test that has not been administered;
- Bribing another person to obtain a test that is to be administered.

- Plagiarism means the appropriation of another's work and the unacknowledged incorporation of that work in one's own written work offered for credit.

Collusion mean the unauthorized collaboration with another person in preparing written work offered for credit. Possible punishments for academic dishonesty may include a grade of 0 or F in the particular assignment, failure in the course, and/or recommendation for probation or dismissal from the College System. (See the Student Handbook)

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
MATH 0324 is a corequisite support course for MATH 1324. Students should be aware that sections of these courses are **LINKED**. Therefore, developmental math students who enroll in Math 0324 must also enroll in the linked section of Math 1324 (in the same semester). Developmental students **must maintain satisfactory attendance in BOTH** Math 0324 and Math 1324. If a developmental student withdraws or drops from one course in the corequisite pair, then he/she will be dropped from the other linked course. Corequisite courses must be taken during the same semester. Please carefully read and consider the repeater policy in the HCCS Student Handbook.

It is important that you come to class! Attending class regularly is the best way to succeed in this class. 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, for excessive tardiness or for leaving class early.

You may decide NOT to come to class for whatever reason. As an adult making the decision not to attend, you do not have to notify the instructor prior to missing a class. However, if this happens too many times, you may suddenly find that you have "lost" the class.
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.

If you feel that you cannot complete this course, you will need to withdraw from the course prior to the final date of withdrawal. If you do not withdraw before the deadline, you will receive the grade that you are making in the class as your final grade. If you wish to drop the class, then it is your responsibility to do that before the final drop date. ***Do not submit a request to discuss withdrawal options less than a day before the deadline. Neither you nor your instructor will be able to perform the drop after the final drop date.***

The last day to withdraw from this course with a grade of W is April 6, 2020.
Student Conduct
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.

Electronic Devices

All personal communication devices (any device with communication capabilities including but not limited to cell phones, blackberries, cameras, palmtop computers, lap tops, PDA's, radios, headsets, recorders, organizers, databanks, and electronic dictionaries or translators) must be muted or turned off during class. Such activity during class time is deemed to be disruptive to the academic process. Personal communication devices are to not be on the student desk during examinations. Usage of such devices during exams is expressly prohibited during examinations and will be considered cheating.

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.

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/
- Mathematics related Scholarships: T-Stem: https://www.hccs.edu/t-stem

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.