



Course Syllabus

Intermediate Algebra E-Learning

MAT 1033 / 80405 / Fall 2026

3 Credit Hours/3 Contact Hours

Pre-requisites/Co-requisites: Math placement test score: (PERT: 114-122), or (CLT: 16-18), or (ACT Math: 19), or (SAT DIGITAL Math: 480), or (SAT Math: 24.0), or minimum grade of "C" in MAT 0012, or flexible placement.

You must earn a "C" or higher in this course in order to advance to MAC 1105, College Algebra or STA2122, Statistical Applications in Social Sciences I.

Contact Information

Instructor

Name: Kristi Krutcek

Title: Assistant Professor of Mathematics

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Instructor Credentials:

A.A., Gulf Coast Community College

B.S.B.A. in Accounting, University of West Florida

M.Ed. in Curriculum and Instruction in Math (K-14), Concordia University

M.S., Mathematical Sciences, University of West Florida

Office Location: SUW 256

Office Hours: See canvas

Response Time: 24-48 hour window

Division Chair

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Course Information

Catalog Description:

(Offered fall, spring, and summer). Prerequisite: Successful completion of developmental courses, appropriate placement test scores or meet state exemption requirement. Intermediate Algebra receives college credit, but only elective credit, and cannot be used to satisfy the math requirements for the Associate in Arts degree. Topics included are factoring, algebraic fractions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, linear equations and inequalities in two variables and their graphs, systems of linear equations and inequalities, introduction to functions, and applications of the above topics.

Section information text:

Online classes may require proctored exams which can be taken for free at any GCSC campus or with the use of testing software for online exams. Please see testing services for all available options.

Student Learning Outcomes:

1. Solve and graph inequalities in two variables, systems of linear equations, and inequalities.
2. Factor polynomials.
3. Simplify expressions involving algebraic fractions, radicals and rational exponents.
4. Solve quadratic, rational, and linear equations including related application problems.
5. Identify and evaluate functions.
6. Perform operations with complex numbers.
7. Find the slope and rates.

Course Materials & Resources:

Text: Beginning & Intermediate Algebra, by Julie Miller, Molly O’Neill, and Nancy Hyde, 2022, 6th edition, McGraw-Hill, ALEKS 360 Access Card (18 weeks) ISBN 9781264121144

Aleks: Aleks is **required** for this course. You must purchase an Aleks code to be able to access the assignments in Aleks. You can purchase the Aleks code at the GCSC Bookstore. You must register your Aleks code using the Canvas course. You do not need a course ID.

Calculator: The mathematics department highly recommends using TI-83 or TI-84 calculator in this course; however, a student may use a scientific or a basic 4 function calculator. Cell phone calculators will not be permitted. Students are expected to have their own calculator.

Delivery Method:

This is a web-based course. All online courses at GCSC utilize the Canvas Learning System. Students should read all information presented in the Canvas course site and should periodically check for updates--at least every 48 hours. **Remember:** This course is not one in which students may work at their own pace. Each week, there are learning modules, homework assignments, quiz assignments, online lectures, and proctored exams with due dates. Proctor U **Is** an option for exams as well as on Campus at the testing center or have an approved proctor for off campus testing. Please read Canvas and watch introduction videos in Canvas for more details regarding testing and testing procedures.

Student Expectations

In this course, communication and feedback will occur through various channels, including GCSC email, Canvas Inbox, Canvas Announcements, Canvas Discussions, Microsoft Teams or Zoom, assignment feedback, and instructor office hours. Review the statements below so that you understand the expectations for communication.

As a student at Gulf Coast State College, you are expected to:

- **Adhere to Course Guidelines:** Follow the guidelines detailed in the course syllabus, along with any additional instructions provided by the instructor. This includes understanding and complying with the course objectives, grading criteria, and academic policies.
- **Maintain Regular Contact:** Keep in touch with your instructor and classmates via your GCSC email or other designated communication channels. Regular contact helps clarify doubts, share ideas, and foster a collaborative learning environment.
- **Active Participation:** Engage actively in class by submitting assignments on time. Your active participation is crucial for your academic success and contributes to a vibrant learning community.

As your instructor, my commitment to you is to:

- **Provide Timely Feedback:** I will review and provide feedback on your assignments and submissions promptly. My goal is to help you understand your strengths and areas for improvement, which is crucial for your academic growth.
- **Respond Via Canvas Inbox:** I will respond to your emails or messages within 24-48 hours (excluding weekends), unless otherwise noted. I understand the importance of clear and timely communication in addressing your questions and concerns.
- **Post Regular Announcements:** To keep you updated and help you manage your time effectively; I will send out weekly reminders via announcements. These reminders will

include important dates, upcoming assignments, and any changes to the course schedule.

- **Maintain Weekly Office Hours:** I will maintain regular weekly office hours, but I can also be available by appointment. This is to ensure I'm available for any questions or concerns that may come up during the week.

Course Schedule

Unit 1

Section 3.3 – Slope of a Line and Rate of Change

Section 3.4 – Slope-Intercept Form of a Linear Equation

Section 3.5 – Point-Slope Formula

Section 8.2 – Introduction to Functions

Section 4.1 – Solving Systems of Equations by the Graphing Method

Section 9.5 – Linear Inequalities and Systems of Linear Inequalities in Two Variables

Unit 2

Section 4.2 – Solving Systems of Equations by the Substitution Method

Section 4.3 – Solving Systems of Equations by the Addition Method

Section 4.4 – Applications of Linear Equations in Two Variables

Section 6.1 – Greatest Common Factor and Factoring by Grouping

Section 6.2 – Factoring Trinomials of the Form $x^2 + bx + c$

Unit 3

Section 6.3 – Factoring Trinomials: Trial and Error Method

Section 6.4 – Factoring Trinomials: AC Method

Section 6.5 – Difference of Squares and Perfect Square Trinomials

Section 6.6 – Sum and Difference of Cubes

Section 6.7 – Solving Equations Using the Zero Product Rule

Section 6.8 – Applications of Quadratic Equations

Section 7.1 – Introduction to Rational Expressions

Section 7.2 – Multiplication and Division of Rational Expressions

Unit 4

Section 7.4 – Addition and Subtraction of Rational Expressions

Section 7.5 – Complex Fractions

Section 7.6 – Rational Equations

Section 7.7 – Applications of Rational Equations and Proportions

Unit 5

Section 10.1 – Definition of an n th Root

Section 10.2 – Rational Exponents

Section 10.3 – Simplifying Radical Expressions

Section 10.4 – Addition and Subtraction of Radicals

Section 10.5 – Multiplication of Radicals

Section 10.6 – Division of Radicals and Rationalization

Section 10.8 – Complex Numbers

Grading

GCSC Grading Scale

A (100-90), B (89-80), C (79-70), D (69-60), and F (59-0).

Calculation of Grades

HOMEWORK:

Homework will be assigned daily and will be completed in Aleks. The daily completion of all homework is essential for learning the material in the course and as preparation for the unit tests and final exam. It is important to keep up with the weekly schedule by setting aside a considerable amount of time to watch the videos for each lesson before attempting to practice problems.

MyLab Math:

There will be homework, quizzes, and review assignments for each unit in Aleks. You are allowed to repeat these assignments multiple times, which will be part of your grade.

TESTING:

There will be five (5) unit tests and a comprehensive final exam on Aleks. The unit tests will be announced in advance, will count equally, and will be returned. The final exam **will not** be returned. There are **no exemptions** for the final exam. A student who does not take the final exam will receive a failing letter grade for the course. There will be out of class assignments assigned, which must be completed by the due dates set forth by the instructor. Pay **CLOSE** attention to the deadlines in Canvas because once the deadline is reached, **NO** late out of class assignment submission will be accepted. The student is expected to keep up daily with the assigned work.

GRADING:

The average of the 5 unit tests will count 50% of your grade. The quizzes, reviews for tests, and homework will each count 10% (30%) of your grade. A comprehensive final exam (no exemptions) will count 20% of your grade. The college grading scale will be used to convert the numerical average to a letter grade.

Test 1 = 10%, Test 2 = 10%, Test 3 = 10%, Test 4 = 10%, Test 5 = 10%, (total percent for the tests is 50%), Out of Class Assignments = 30%, and the Final Exam = 20%.

Course Policies

Accessibility Statement

Gulf Coast State College supports an inclusive learning environment for all students. If there are aspects of the instruction or design of this course that hinder your full participation, reasonable accommodations can be arranged. Prior to receiving accommodations, you must register with Student Accessibility Resources. Appropriate academic accommodations will be determined

based on the documented needs of the student. Please visit [GCSC's Student Accessibility Resource \(SAR\) webpage](#) to learn more. For information regarding the registration process, email sar@gulfcoast.edu or call 850-747-3243.

Attendance Policy

Regular class attendance and participation are significant factors that help to promote success in college. Students are expected to attend all class meetings of all courses for which they are registered.

You are expected to know the instructor's specific attendance policy, as stated in the syllabus for each course. In the event of absence, you should contact your instructor as soon as possible to indicate the reason and to inquire whether make-up work is possible. (Make-up work is offered solely at the discretion of your professor.)

If your absences in a class become excessive, as stated in the course syllabus, your professor may contact you, indicating that further absence may result in your withdrawal from the course. Your professor can withdraw you from a course for excessive absences without your permission.

Instructors will monitor attendance at the beginning of each semester. If you are not in attendance during this period, you may be withdrawn from the course. You will be financially responsible for the course and a "W or NS" will appear on your transcript. Withdrawal from a course may also have implications for financial aid.

Make-Up Work Policy

- **NO** Extra credit
- **SOME** out of class assignment grades may be dropped at the discretion of the instructor.
- Out of class assignments are due by the date your instructor sets. It is your responsibility to know and adhere to the due dates.
- **NO** retakes of any tests.
- **NO** test grades will be dropped.
- The Schedule set forth outlines what is covered and what the deadlines are. You know in advance the testing dates for each test; therefore, missing a test is unacceptable and you will receive a grade of zero for that missed test without a make-up. However, if missing a test is unavoidable, then you require prior approval.
- If a test is missed due to a valid excuse and is granted, then a make-up test will need to occur as per agreement with your instructor. Proof of why you missed test will be required, and it is the student's responsibility to make necessary arrangements to contact their instructor regarding a make-up test.
- The final exam can be used to replace the lowest unit test grade, if it helps improve your grade.
- Missed test grades (grades of zero) will not be replaced.

Withdrawal Policy

Two withdrawals are permitted per credit course. After that, a grade will be assigned. Please be concerned about withdrawals. When admitting students into certain programs, universities may calculate withdrawals as grades. It is your responsibility to verify the effects of enrollment and/or withdrawal upon your financial assistance (financial aid, scholarships, grants, etc.). There are two kinds of withdrawals---student and administrative.

- *Student Withdrawal (W1)* - Students wishing to withdraw must complete the online Student Withdrawal Form before the scheduled withdrawal deadline as published in the College catalog. Student withdrawals initiated prior to the scheduled withdrawal deadline will be recorded as a grade of "W." The withdrawal deadline for an off-term or condensed term is one week after midterm.
- *Administrative Withdrawal (W2)* – A faculty member may withdraw a student up to the published withdrawal deadline for violation of the class attendance policy in which case the student will receive a grade of "W." The withdrawal deadline for an off-term or condensed term is one week after midterm.

Students cannot withdraw from developmental studies courses (college-preparatory classes) after the drop/add period without written permission from their instructor and/or their academic advisor.

Academic Integrity

Honest participation in academic endeavors fosters an environment in which optimal learning can take place and is consistent with the college's mission. Academic misconduct, including cheating or plagiarism, is destructive to the spirit of an educational environment. GCSC professors report every instance of student academic misconduct to the college for inclusion on the student's records.

Most course syllabi include an academic honesty policy and the consequences for violating this policy. Familiarize yourself with course policies regarding authorized or unauthorized use of AI to avoid the pitfalls of academic dishonesty.

The following definitions will apply:

"Cheating"

includes but is not limited to use of any unauthorized assistance in taking quizzes, tests, or examinations; dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; the acquisition without permission of tests or other academic materials belonging to a member of the College's faculty.

"Plagiarism"

includes, but is not limited to, the use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment as well as the

purchase of papers or projects. It can also include overuse of an editing program like Grammarly or submitting work written by an Artificial Intelligence (AI) generator like ChatGPT. Make certain to consult your course syllabi for your instructor's guidelines of AI material.

"Self-plagiarism"

occurs when a student submits the same or considerably similar document to fulfill requirements in different classes. For example, if a student submits a term paper in Religion they originally wrote for an English class, this is self-plagiarism. Once a paper receives a grade in one class, it cannot be submitted again for another class.

"Generative Artificial Intelligence (AI)"

is technology that uses machine learning to create new content, such as text, images or code, based on user input. These systems are trained on vast amounts of data, including large language models and image or code generators. Common examples include ChatGPT, GitHub, Copilot, Google Gemini, Perplexity, and the Grammarly AI function.

Sanctions for incidences of academic misconduct, depending on the severity of the incidence and/or its repetition, may range from receiving an F grade (or 0) for the test, assignment, or activity, to failure of the course, to suspension or dismissal from the college.

Classroom Recording

In accordance with federal and state privacy laws, students may record class lectures for their own personal educational use, in connection with a complaint to the college, or as evidence in internal or external legal proceedings. Students may not publish or upload the recordings or any components thereof without the knowledge and written permission of the faculty member. Failure to obtain permission to publish could lead to the students' having to pay damages, attorney fees, and court costs. For more information about what can be recorded, please see the guidelines in the GCSC Student Handbook.

Generative Artificial Intelligence (AI) Policy

The use of generative AI tools in academic work requires clear guidelines to maintain academic integrity. Please review the policy selected for this course regarding the use of AI tools such as ChatGPT, Copilot, Grammarly's AI features, and similar platforms for assignments, research, and other coursework.

See the student handbook for further information. Students with questions about acceptable use should consult their instructor.

Prohibited Use of AI

The use of AI-generated content is strictly prohibited in all assignments, coursework, and throughout all stages of the work process, such as brainstorming, outlining, or drafting. This includes but is not limited to, tools such as ChatGPT, Copilot, and Grammarly's AI function. Use of AI tools will be treated as a violation of academic integrity and may result in penalties,

including a zero on the assignment and additional disciplinary actions as outlined in the college's academic integrity policy.

The Math Division at GCSC discourages you from utilizing AI as a substantial source of your learning. You are expected to do your own work in this course and will be graded on your mastery of the material herein. Although AI can be an outside resource for problem solving, it may not be a reliable source. What is most important in a math course is that you personally learn the step-by-step processes that it takes to find solutions to problems, to analyze data sets, to create mathematical models, and to apply what you have learned, in theory or through formulas, to applications of mathematics found in real-life instances.

For graded assignments (tests, quizzes, or otherwise), you will not be allowed to use any AI tools, such as chatbots, text generators, paraphrasers, summarizers or solvers, to complete any part of your assignments. Using AI tools for graded assignments will be considered a form of academic dishonesty and could result in a grade of zero for the assignment and disciplinary action. If you have any questions about what constitutes acceptable uses of AI tools, inside or outside the classroom, please consult your instructor.

Anti-Discrimination Policy

Gulf Coast State College does not discriminate against any person in its programs, activities, policies or procedures on the basis of race, ethnicity, color, national origin, marital status, religion, age, gender, sex, pregnancy, sexual orientation, gender identity, genetic information, disability, or veteran status. All questions or inquiries regarding compliance with laws relating to non-discrimination and all complaints regarding sexual misconduct or discrimination may be directed to Amanda Reed, Executive Director of Human Resources/Title II/504/Title IX Coordinator and Employment Equity Officer, Gulf Coast State College, 5230 W. US Highway 98, Panama City, FL 32401; 850-769-1551, ext. 3516. Rules, policies, fees, and courses described in this catalog are subject to change without notice.

Syllabus Policy

For any syllabus posted prior to the beginning of the term, the instructor reserves the right to make minor changes prior to or during the term. The instructor will notify students via e-mail or Canvas announcement when changes are made in the requirements and/or grading of the course.

Student Support Resources

Gulf Coast State College is committed to providing you with the resources you need for success as a student and beyond. View all the academic and student support resources provided at GCSC on the [Student Services web page](#).

Course Technology & Support

To successfully participate in this online course, students must have basic computer and digital information literacy skills and meet the following technology requirements:

- **Computer:** Up-to-date web browser that supports the Canvas learning management system; please refer to the system requirements for compatibility and information on using the Canvas app on mobile devices.
- **Internet Speed:** Minimum bandwidth of 8 Mbps upload/download speed to effectively engage in online activities and access multimedia.
- **Office 365 software:** Available for free download through GCSC Information Technology Services (ITS).

If you need technical support, contact the ITS Help Desk, available 24/7 at (850) 913-3303.