EAST GEORGIA STATE COLLEGE

A unit of the University System of Georgia 131 College Circle - Swainsboro, Georgia 30401-2699 - Phone: 478-289-2000 Spring Semester-2025 Math 1113: Pre-Calculus - Online

Instructor: Mr. Keith Barrs (email - kbarrs@ega.edu) Office Location: EGSC Statesboro Center #1722 (GSU Nesmith Lane Building), Phone 912-349-9399, email is the preferred way to contact me, Student Office Hours:

Mon	Tue	Wed	Thu
Student Office Hours		Student Office Hours	
11:00-1:30pm Office #1722		12:00-2:30pm Office #1722	
1:30 pm–2:30 Virtual		2:30 pm–3:30 Virtual	

II. **Course description**: Prepares students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic and trigonometric functions with applications. Selected sections of chapters 5, 7, 8, & 9 of textbook.

This is a Core IMPACTS course that is part of the <u>mathematics</u> area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

• How do I measure the world?

Completion of this course should enable students to meet the following Learning Outcome:

• Students will apply mathematical and computational knowledge to interpret, evaluate, and communicate quantitative information using verbal, numerical, graphical, or symbolic forms.

Course content, activities and exercises in this course should help students develop the following <u>Career-Ready Competencies</u>:

- Information Literacy
- Inquiry and Analysis
- Problem-Solving
- III. **Prerequisites**: C or higher in Math 1111 or permission of instructor.
- IV. **Textbook**: Algebra & Trigonometry, 11th Edition by Sullivan. MyLab Math is required for this course. Since the eText is included in MyLab Math, the hardcover and loose-leaf textbooks are optional.

This course is using inclusive access. Therefore, you do not need to purchase a MyLab Math access code from the bookstore or online from Pearson! However, if you choose to purchase your own access code, you may opt out of the inclusive access option.

To enroll in your section in MyLab Math, please follow these steps.

- 1. Log in to D2L/Brightspace. Chrome is a good browser to use.
- 2. Select your course in D2L.
- 3. Select "Enter MyLab Math" module. Then select "Pearson Course Materials" module.
- 4. Select "Open MyLab & Mastering" at top of screen.
- 5. You will now have access to MyLab Math (MyMathLab).
- V. Link to EGSC Learning Outcomes: <u>https://www.ega.edu/current-students/academics/core-curriculum-requirements.html</u>
- VI. **Evaluation** Homework, Quizzes, Tests. Proctored midterm & final exam with HonorLock.

VII. Grading: Grades will be based on the following: 1) Homework & Quizzes: (via MyMathLab) 100 points of your final grade. 2) Tests: 3 tests will be given on MyMathLab. each test counts 100 points of your final grade. 3) Mid-Term (300 points) & Final Exam: (300 points) of your final grade. A comprehensive mid-term test will be given before <u>3/5/25</u> using HonorLock (additional fee required see below). A comprehensive final exam covering material from the semester will be given by <u>5/8/25 on HonorLock (additional fee required see below)</u>. A comprehensive final exam covering material from the semester will be given by <u>5/8/25 on HonorLock (additional fee required see below)</u>. No exemptions or make-ups will be granted for either of these tests. EVERYONE MUST TAKE THE MID-TERM & FINAL EXAM! You are required to take the mid-term and final exam tests using the HonorLock service (an additional fee is required see below)</u>. Your final grade is determined by dividing earned points by possible points (1000 points total possible). The following grade distribution is followed.

A-90-100%, B-80-89%, C-70-79%, D-60-69%, F-0-59%, W (withdrawal by mid-term)

- VIII. **Attendance Policy**: Students are expected to participate in the class by reading emails and announcements daily. Online learning requires the learner to take more responsibility in the class. A student must verify their attendance when asked in the class or they may be dropped from the class. Do not wait until the last minute to do the work in the class.
- IX. Make-up Policy: There will be NO make-up tests. A student who has <u>advanced</u> <u>permission</u> from the instructor to miss a test for a legitimate reason (documented cases of illness, death in the family or other documented reasons deemed appropriate by the instructor) <u>may</u> substitute (with instructor approval) the final exam grade for the missing test grade. Any student who does not take a test at the scheduled time <u>without the prior</u> <u>consent</u> of the instructor will receive a grade of zero (0) on that test.
- X. Plagiarism & Academic Dishonesty (please see EGSC Student Handbook <u>https://www.ega.edu/about/at-a-glance/policies-and-procedures-of-the-college/files/04-</u> <u>student-handbook.pdf</u>ADA Statement: If any student has special needs because of learning disabilities or other disabilities, the student should provide the proper documentation and discuss this problem with the instructor in the privacy of their office. EGC statement can be found at: <u>https://www.ega.edu/current-students/student-</u> <u>support/index.html</u>
- XI. **Course Withdrawal Policy Statement**: Withdrawal Date: The last day to withdraw from classes without academic penalty is <u>3/5/25</u>. Students are responsible for their own academic progress. Decisions regarding withdrawal from courses should only be made after consultation with an academic advisor. Before withdrawing from a course, students should meet with a Financial Aid representative to discuss their personal financial aid situation. More information regarding withdrawal from courses can be found in the EGC catalog at <u>https://www.ega.edu/current-students/academics/add-drop-withdraw-from-class.html</u>

XII. Campus Emergency Policy:

a. In the event the fire alarm is sounded, everyone must evacuate the building at once and in a calm and orderly fashion, using the nearest exit. In the event of a severe weather warning everyone must proceed immediately to the nearest designated shelter area which are marked by a small tornado symbol. All severe weather shelter locations are posted on the EGSC website. Each student should, on the first day of class, determine the location of the nearest exit and the nearest designated shelter area for each of his or her classrooms. If you have difficulties locating either ask your instructor to assist you.

b. East Georgia State College utilizes a communication service to allow administrators and campus safety personnel to quickly contact you with voice and text messages that contain emergency-related campus information (e.g., campus closing, campus threat,

health scare, etc.) With this service, East Georgia State College students and employees can be reached and provided with vital information anywhere, anytime, through their cell phones, home phones, e-mail, TTY/TDD receiving devices, or other text-receiving devices.

c. EGSCS students should make themselves familiar with Georgia Southern University's Emergency Response Plan

https://finops.georgiasouthern.edu/emergencymanagement/wpcontent/uploads/sites/8/WebSafe-Pages-from-EOP-KN-May-13-7-10-19.pdf In the event of an emergency, EGSCS students should follow the instructions of EGSCS faculty and staff members and GSU campus officials.

- XIII. Additional Course Requirements: Calculator Policy: The TI-83/84 graphing calculator is <u>required</u>. No unauthorized material may be stored in a calculator. Your calculator memory should be empty. NO CELL PHONES or wearable computers are allowed as calculators! Computer Requirements: Because this is an online course, it is extremely important that you have fast (Broadband), reliable, daily internet access. Not only do you need one computer with fast internet access, but you need access to another computer in case your first computer crashes or your internet goes down. You may use the computer labs at EGC campus, the GSU campus, or local library. WARNING: having technical difficulties will not be an acceptable excuse for failing to complete the assignments.
- XIV. Daily Schedule: A daily schedule can be found on both the D2L and MyMathLab websites.
- XV. EGSC Administrative Syllabus Statement for this semester: Go to this web address - <u>https://www.ega.edu/academics/syllabus-administrative-statement.html</u>

I reserve the right to modify the content, assignments, structure, and/or pacing of the course as necessary.

Additional Help:	Tutorial center hours:	call: 912-623-2400 (for Statesboro tutoring info)
		call: 478-289-2151 (for Swainsboro tutoring info)
		call: 706-729-2246 (for Augusta tutoring info)

Course Learning Outcomes (CLOs)

- CA1. Students will be able to identify the fundamental components of relations, functions, and their graphs.
- CA2. Students will be able to apply properties of functions.
- CA3. Students will be able to solve, graph, analyze, and interpret linear, quadratic, exponential, and logarithmic functions.
- CA4. Students will be able to solve real-world application problems involving linear, quadratic, exponential, and logarithmic functions.

HonorLock Proctoring Info

This course will utilize Honorlock for proctoring. Please note that the Honorlock service will cost around \$9 per exam.

Honorlock is an online proctoring service that allows you to take your exam from the comfort of your home. You DO NOT need to create an account or schedule an appointment in advance. Honorlock is available 24/7, and all that is required is a computer, a working webcam/microphone, your ID, and a stable internet connection. You will need to use Google Chrome. You also need to download the Honorlock Chrome Extension.

Honorlock support is available 24/7/365. If you encounter any issues, you may contact them through live chat on the support page or within the exam itself. Some guides you should review are Honorlock Minimum System Requirements, FAQs for Test-Takers, Honorlock Knowledge Base, and How to Use Honorlock.

When you are ready to complete your tests, log into D2L, go to your course, and click on your exam. Clicking "Launch Proctoring" will begin the Honorlock authentication process, where you will take a picture of yourself and show your ID. During the authentication steps, you may be prompted to complete a room scan. This is a student authentication step in

which you will be asked to perform a 360-degree scan of your environment with the computer or webcam to confirm the integrity of the testing environment. Honorlock will be recording your exam session through your webcam, microphone, and recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

If you do not wish to participate in remote proctored exams, you may notify your professor at least a week prior to the date of the exam and schedule to take the exam at the ACE from one of the three EGSC campuses. The exam must be taken during the same period of time as the remote proctored exam. If you do wish to participate in remote proctored exams, you must complete the online consent form in D2L prior to the first proctored exam date.

If you have already been approved for special testing accommodations, you must notify your professor as soon as possible.

Math 1113 Pre-Calculus- Course Content Schedule -Spring 2025

Course Review Info - I highly recommend that you review the first 3 chapters of the textbook before you start the course.

Test 1 Information – Chapter 5 – Polynomial and Rational Functions

Sections Covered: Test 1 Schedule (Homework is on MyMathLab)

Section 5.1 Polynomial Functions and Models Section 5.2 Properties of Rational Functions Section 5.3 Graphs of Rational Functions Section 5.4 Polynomial and Rational Inequalities Section 5.5 Real Zeros of Polynomial Functions Section 5.6 Complex Zeros; Fundamental Theorem of Algebra

Practice Problems for Test 1 (On MyMathLab website) (click on "Take A Test")

Test 2 Information - Chapter 7 - Trigonometric Functions

Sections Covered: Test 2 Schedule (Homework is on MyMathLab)

Section 7.1 Angles and Their Measures Section 7.2 Trigonometric Functions: Unit Circle Approach Section 7.3 Properties of the Trig Functions Section 7.4 Graphs of the Sine and Cosine Functions Section 7.5 Graphs of Tan, Cot, Sec, Csc Functions

Practice Problems for Test 2 (On MyMathLab website) (click on "Take A Test")

Test 3 Information - Chapter 8 - Analytic Trigonometry

Sections Covered: Test 3 Schedule (Homework is on MyMathLab)

Section 8.1 The Inverse Sine, Cosine, & Tangent Functions Section 8.2 The Inverse Sine, Cosine, & Tangent Functions Continued Section 8.3 Trigonometric Identities Section 8.4 Sum and Difference Formulas Section 8.5 Double-Angle & Half-Angle Formulas Section 8.6 Product-to-Sum & Sum-to-Product Formulas

Practice Problems for Test 3 (On MyMathLab website) (click on "Take A Test")

Test 4 Information - Chapter 9 - Applications of Trigonometric Functions

Sections Covered: Test 4 Schedule (Homework is on MyMathLab)

Section 8.7 Trigonometric Equations I Section 8.8 Trigonometric Equations II Section 9.1 Applications Involving Right Triangles Section 9.2 The Law of Sines Section 9.3 The Law of Cosines Section 9.4 Area of a Triangle

Practice Problems for Test 4 (On MyMathLab website) (click on "Take A Test")