



**Math 2414.221C3**  
**Calculus 2**  
**Fall 2025**  
**Lecture**  
**MW 5:30 pm – 7:20 pm STE103**

**Instructor Information:** James Griffiths [jgriffiths@com.edu](mailto:jgriffiths@com.edu) 409-933-8225

**Student hours and location:** MW (co-req) 2:00 pm – 3:00 pm in ICB-109  
MW 4:15 pm – 5:30 pm in STE325-08  
TTh 11:00 am – 12:30 pm in STE325-08

**Required Textbook:** The textbook used in this course is *Calculus, Early Transcendentals*, by Thomas, 15<sup>th</sup> edition, published by Pearson. The e-text is provided with *MyLab Math*. The student will need a computer and internet service outside of class to gain access to the online assignments on *MyLab Math*. Computers and internet access are available on campus during specified times. A Texas Instruments TI30XIIS scientific calculator is recommended for this course. A graphing calculator may not be used on exams. A pencil is required for all work.

**Course Description:** The course covers differentiation and integration of transcendental functions; techniques of integration, applications of integration; sequences and series; improper integrals.

**Course requirements:**

**Homework on MyLabMath:** There is a homework assignment for each unit covered. Each day's homework assignments must be completed by 11:59 pm on the due date shown on the course outline in this syllabus and on the list of assignments on *MyLabMath*. The student should do the assignments as soon as possible after doing one or more of the following: reading the appropriate section

in the textbook (on *MyLabMath*), watching the instructor video lecture or reading the lecture notes (on D2L), or watching the associated videos by Pearson (on *MyLabMath*). Although the homework is online and the answers are entered online, you should write your work on paper, neatly showing all steps, and keep it in your notebook with your notes for future reference, both as an aid for preparing for quizzes and exams, and as a place to begin when seeking assistance from the professor or the college tutoring center, or your peers. You will have three attempts to answer each homework question. Don't waste any of them.

**Quizzes on *MyLabMath*:** Four quizzes will be taken on *MyLabMath*. Like the homework assignments, the due dates are shown on the course outline in this syllabus and on the assignment list on *MyLabMath*. Unlike the homework assignments, the quizzes must be taken in one sitting, they are timed (the student has 60 minutes to complete each quiz), and the student gets only **one** attempt to answer each question. **Additionally, you must upload your work in PDF format to D2L within 20 minutes of completing each quiz. All questions must be numbered and in numerical order, and all work must be shown. Specific instructions are given under the "Assignments" tab at the top of the page in your course on D2L.** The quizzes may be retaken **one** time. The higher of the two grades will be used to determine the student's quiz average. If you elect to take a quiz a second time, study the material you miss before trying again.

**Chapter Exams:** There are **four** exams which cover the chapters in the text book. The exams are taken in class on the due date shown on the course outline in this syllabus. The student has the entire class time to complete each exam. **Exams may not be retaken.** However, if the grade on the final exam is higher than the lowest exam grade, the final exam grade will replace the lowest chapter exam grade.

**Comprehensive Final Exam:** The final exam is taken in class on the due date shown on the course outline in this syllabus. The student has the entire class time to complete the final exam. **The final exam may not be retaken.**

**Determination of Course Grade/Detailed Grading Formula:**

Comprehensive Final Exam	20%
Average of Chapter Exams	60%
Homework Average	10%
Quiz Average	10%
Final Average	100%

**Grade I:** Given unforeseen circumstances that result in the inability to successfully complete the course objectives, an I-Contract can be requested from the instructor assuming you meet the following criteria:

1. Have a passing overall average (70 or higher)
2. All work has been completed except for The Final Exam.

**Grading Scale:**

Grade A: Final Average is [89.5, 100]

Grade B: Final Average is [79.5, 89.5)

Grade C: Final Average is [69.5, 79.5)

Grade D: Final Average is [59.5, 69.5)

Grade F: Final Average is [0, 59.5)

**Late Work, Make-Up Exams, and Extra-Credit Policy:**

**Late Work:** There is a twenty (20) percent grade penalty for all homework and quizzes submitted after the due date. Any homework assignments or quizzes that are not finished by the due date of the associated exam will be given a grade of zero at the time the exam is given.

**Make-Up Exams:** There are no make-up exams, unless:

1. the student notifies the instructor that they will miss the exam before the time and date the exam is scheduled, and
2. the reason for the requested make-up exam is extraordinary, such as the death of a close family member, or the student's admittance to the hospital.  
(Transportation problems, minor illness, or scheduled doctor appointments are not extraordinary reasons for missing an exam.)

Students will **not** be permitted to make up more than **one** exam.

**Extra Credit:** Three points extra credit is given on exams if the student earns a score of **100** on the review. Extra-credit assignments may also be given throughout the course at the discretion of the instructor. The total extra credit points for any exam may not raise an exam grade above **100**. Extra credit is never given at the end of the semester to bring up a grade. Don't even ask.

**Attendance Policy:** Students at COM are expected to attend and participate in every session of all classes for which they are registered. College of the Mainland recognizes no excused absences other than those prescribed by law. Students with excessive absences will be referred to Student Services. Students should consult information provided in MyLab Math and the course calendar when it becomes necessary to miss a class to be prepared when they return to class. The student is still responsible for work that is assigned during an absence and due dates still hold.

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means. The **preferred** method of communication in this course is in person. If that is not possible, an email or phone call will be satisfactory, but do not leave a message on my phone. If you cannot reach me by phone, email me. Be sure to include your name, the course in which you are enrolled, and state your question completely.

**Table Mapping SLO's and Core Objectives:**

<b>Student Learner Outcome</b>	<b>Maps to Core Objective</b>	<b>Assessed via this Assignment</b>
1. Use the concepts of definite integrals to solve problems involving area, volume, work, and other physical applications.	Empirical and Quantitative Skills	Exam
2. Use substitution, integration by parts, trigonometric substitution, partial fractions, and tables of anti-derivatives to evaluate definite and indefinite integrals.	Critical Thinking Skills	Exam
3. Define an improper integral.	Critical Thinking Skills	Exam
4. Apply the concepts of limits, convergence, and divergence to evaluate some classes of improper integrals.	Critical Thinking Skills	Quiz
5. Determine convergence or divergence of sequences and series.	Critical Thinking Skills	Exam
6. Use Taylor and Maclaurin series to represent functions.	Empirical and Quantitative Skills	Exam
7. Use Taylor or Maclaurin series to integrate functions not integrable by conventional methods.	Empirical and Quantitative Skills	Exam
8. Use the concept of polar coordinates to find areas, lengths of curves, and representations of conic sections.	Empirical and Quantitative Skills	Exam

**Academic Dishonesty:** College of the Mainland is committed to a high standard of academic integrity. All students are responsible for honesty and independent effort. Incidents of academic and scholastic dishonesty (including cheating, plagiarism, and collusion) will be dealt with in a manner that is consistent with College Policy and the Student Handbook. Any student found to have been academically dishonest on an assignment, quiz or exam will receive a zero for that assignment, quiz or exam and he or she will be referred to the Office of Student Conduct for further disciplinary action. Please read the sections of *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.

**Student Concerns:** If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Mr. Leslie Richardson, Math Department Chair, at 409-933-8329 or [lrichardson@com.edu](mailto:lrichardson@com.edu).

**Course outline:**

Week	Date	Sections
1	8/18	Orientation Exercises Due 8/21
	8/20	5.6 Substitution and Area Between Curves Due 8/21 6.1 Volumes Using Cross-Sections Due 8/23
2	8/25	6.2 Volumes Using Cylindrical Shells Due 8/28
	8/27	6.3 Arc Length Due 8/30 <b>Quiz 1 (5.6 – 6.3) Due 8/31</b>
3	9/1	HOLIDAY
	9/3	6.4 Areas of Surfaces of Revolution Due 9/6
4	9/8	6.5 Work and Fluid Forces Due 9/11
	9/10	6.6 Moments and Centers of Mass Due 9/13 Review for Exam 1 Due 9/15
5	9/15	<b>Exam 1 (5.6 – 6.6) Due 9/15</b>
	9/17	7.1 The Logarithm Defined as an Integral Due 9/20
6	9/22	7.2 Exponential Change and Separable Differential Equations Due 9/25
	9/24	7.3 Hyperbolic Functions Due 9/27 <b>Quiz 2 (7.1 – 7.3) Due 9/28</b>

7	9/29 10/1	7.4 Relative Rates of Growth Due 10/2 8.1 Using Basic Integration Formulas Due 10/4 Review for Exam 2 Due 10/6
8	10/6 10/8	<b>Exam 2 (7.1 – 7.4) Due 10/6</b> 8.2 Integration by Parts Due 10/11
9	10/13 10/15	8.3 Trigonometric Integrals Due 10/16 8.4 Trigonometric Substitution Due 10/18 <b>Quiz 3 (8.1 – 8.4) Due 10/19</b>
10	10/20 10/22	8.5 Integration of Rational Functions by Partial Fractions Due 10/23 8.8 Improper Integrals Due 10/25 Review for Exam 3 Due 10/27
11	10/27 10/29	<b>Exam 3 (8.1 – 8.8) Due 10/27</b> 10.1 Sequences Due 11/1
12	11/3 11/5	10.2 Infinite Series Due 11/6 10.3 The Integral Test Due 11/8
***** The last day to withdraw from this course is 11/14/2025 *****		
13	11/10 11/12	10.4 Comparison Tests Due 11/13 10.5 Absolute Convergence; Ratio & Root Tests Due 11/15 <b>Quiz 4 (10.1 – 10.5) Due 11/16</b>
14	11/17 11/19	10.6 Alternating Series & Conditional Convergence Due 11/20 10.7 Power Series Due 11/22
15	11/24 11/26	10.8 Taylor and Maclarin Series Due 11/25 Review for Exam 4 Due 12/26 <b>Exam 4 (10.1 – 10.8) Due 11/26</b>
16	12/1	<b>Comprehensive Final Exam Due 12/1</b>

***The syllabus is subject to change at the discretion of the instructor.***

## **Academic Success Resources:**

### **Tutoring:**

The Tutoring Center is here to support your academic success! We offer free, personalized academic assistance through one-on-one tutoring, available both in person and online. Need help after hours? Tutor.com provides 24/7 support and is accessible through your D2L course shell. Whether you're looking to master course material or boost your learning habits, we're here to help. For more information, visit <https://www.com.edu/tutoring>, email us at [tutoringcenter@com.edu](mailto:tutoringcenter@com.edu), or contact us at 409-933-8703

### **Success Coaching:**

The Math Success Coach is here to help you navigate this course and stay on track both academically and personally. Support is offered through one-on-one coaching sessions covering topics such as time management, goal setting, stress management, study habits, and motivation. Whether you're overcoming challenges or aiming to improve your performance, the Math Success Coach provides encouragement, accountability, and practical tools for success. Email [successcoaching@com.edu](mailto:successcoaching@com.edu) for more information.

## **Institutional Policies and Guidelines**

**Grade Appeal Process:** Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook

<https://www.com.edu/student-services/student-handbook.html> *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

**Academic Success & Support Services:** College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

**ADA Statement:** Any student with a documented disability needing academic accommodations is requested to contact:

Kimberly Lachney, Student Accessibility Services Coordinator

Phone: 409-933-8919

Email: [AccessibilityServices@com.edu](mailto:AccessibilityServices@com.edu)

Location: COM Doyle Family Administration Building, Student Success Center

**Textbook Purchasing Statement:** A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Withdrawal Policy:** Students may withdraw from this course for any reason prior to the last eligible day for a “W” grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1<sup>st</sup> 8-week session is October 1. The last date to withdraw from the 16-week session is November 14. The last date to withdraw for the 2<sup>nd</sup> 8-week session is November 25.

**FN Grading:** The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

**Early Alert Program:** The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.



### **Resources to Help with Stress:**

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at [deanofstudents@com.edu](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).

### **Nondiscrimination Statement:**

The College District prohibits discrimination, including harassment, against any individual on the basis of race, color, religion, national origin, age, veteran status, disability, sex, sexual orientation, gender (including gender identity and gender expression), or any other basis prohibited by law. Retaliation against anyone involved in the complaint process is a violation of College District policy.

### **Steps for Uploading Work on Quizzes**

1. Open your PDF converter app. Then take pictures in batch mode of your work pages in numeric order to convert to a **single** PDF file (single document). Make sure this is ONE single PDF file, and the pages are upright and readable with questions numbered and in order.
2. Email the **single** PDF file to yourself and save on your computer.
3. Click on the assignment link, Quiz 1 work, within D2L Brightspace.
4. Click on “Add a File” and choose your saved PDF file.
5. Click submit. File will not be submitted without completing this last step.

**DEADLINE:** YOUR WORK IS REQUIRED TO BE SUBMITTED WITHIN 20 MINUTES OF SUBMITTING ONLINE QUIZ ON MYLABMATH. Any work submitted after this deadline will not be accepted.