Department of Mathematics

Syllabus
for
Math 2415.222CL Fall 2021
Calculus III
Independent Study

Professor: **Tom English**
E-mail: **tenglish@com.edu**

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
I will make every effort to respond to your email within 24 hours of receiving it.

Student hours
Virtual Office Hours: MW 9:00 am - 10:50 am, F 10:00 am - 10:50 am, TTh 11:00 am - 12:20 pm Note: you are welcome to email me at any time, day or night. I usually monitor email the entire day to ensure prompt resolution of any issues I may assist with.

1. **Required Textbook**
   The textbook used in this course is Thomas' Calculus, Early Transcendentals, by Hass, Heil and Weir, 14th edition, published by Pearson. Note: you will have access to this textbook via MyMathLab and do not have to purchase a printed copy of the textbook.

2. **Textbook Purchase**
   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.

3. **Course Description**
   Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem.

4. **Technology**
   A calculator is needed for this course. A Texas Instruments TI 83 Plus or TI 84 Plus is recommended. A TI 89 or higher cannot be used in this course.

5. **Course Requirements**

   Homework Assignments
   There is an assigned homework for each section to be completed online using MyMathLab.

   Quizzes and Exams
   There are three quizzes, four chapter exams and a comprehensive final exam. All of the quizzes and exams are to be done online using MyMathlab . You can retake each quiz just once to improve your score; the higher score will be the one that counts.
   There are no retakes on any of the exams.

6. **Determination of Course Grade**

   Grading Formula:

   The course grade will be determined by the following formula:

   Final Average =   64%Chapter Exam Average + 16%Final Exam
   **   + 10%Homework Average + 10%Quiz Average**

   The Final Exam score will replace the lowest Chapter Exam Score when it is larger.

   Grading Scale:

   Grade A: Final Average in [89.5, 100]
   Grade B: Final Average in [79.5, 89.5)
   Grade C: Final Average in [69.5, 79.5)
   Grade D: Final Average in [59.5, 69.5)
   Grade F: Final Average in [0, 59.5)

7. **Make-up Policy**
   If you are unable to make a scheduled exam, you will be allowed to make up the exam outside of class **provided you notify the instructor prior to the exam and have a legitimate reason for the absence**. All makeup exams must be taken in the Testing Center by appointment.

8. **Course Outline**

   Since this is an independent study course, the student may proceed at the pace one finds comfortable, with the expectation that all work will be completed by the end of the semester. The sections of the text that are covered in the course are as follows:
   12.1 – 12.6
   13.1 – 13.6
   14.1 - 14.10
   15.1 - 15.8
   16.1 - 16.8

   W-day: November 19th

9. **Attendance Policy**

   Attendance and classroom participation is required. This is done by working on MyMathLab for attendance at least three times per week, and corresponding with the instructor via email for the classroom participation portion of the course.

10. **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 only permitted to withdraw six times during their college career by State law. The last day to is November 19th for 16-week courses.

11. **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.

12. **Early Alert Program**

    The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success is 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.

13. **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 on *Standards of Student Conduct and Discipline and Penalties* in the on-line Student Handbook.

14. **Concerns about the Instructor**

    If you have any questions or concerns about any aspect of this course, please contact me at tenglish@com.edu.   If, after discussing your concern with me, you continue to have questions, please contact Department Chair Leslie Richardson at lrichardson@com.edu.

15. **Table Mapping SLO's and Core Objectives**

Student Learner Outcomes	Maps to Core Objective	Assessed via this assignment
1. Perform calculus operations on vector-valued functions, including derivatives, integrals, curvature, displacement, velocity, acceleration, and torsion.	Empirical and Quantitative Skills (EQS)	Exam
2. Perform calculus operations on functions of several variables, including partial derivatives, directional derivatives, and multiple integrals.	Critical Thinking Skills (CT)	Exam
3. Find extrema and tangent planes.	Critical Thinking Skills (CT)	Exam
4. Solve problems using the Fundamental Theorem of Line Integrals, Green's Theorem, the Divergence Theorem, and Stokes' Theorem.	Communication Skills (CT)	Exam
5. Apply the computational and conceptual principles of calculus to the solutions of real-world problems.	Critical Thinking Skills (CT)	Exam

16. **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://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf> *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.* https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

17. **Academic Success & Support Services**

College of the Mainland is committed to providing students the necessary support and tools for success in their college career. Support is offered through our Tutoring Services, Library,

Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

18**. ADA Statement**
Any student with a documented disability needing academic accommodations is requested to contact Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

19**. Counseling Statement:** Any student that is needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to setup their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

20. **COVID-19 Statement:** All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at www.com.edu/coronavirus. In compliance with Governor Abbott's May 18 Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit com.edu/coronavirus for future updates.