

INSTRUCTOR: James Walters**EMAIL:** jwalters@cfcc.edu**WEB PAGE:** cfcc.edu/jwalters**MATHLAB HOURS (S606)** T, Th 5 - 6 PM**OFFICE:** S – 602K**PHONE:** 362-7108

Virtual Office Hours

OFFICE HOURS:

M 5 - 6

T - F 2 - 3

M 5 - 6

CFCC General Education Competencies Will Incorporate All or Some of the Following:

Written Communication

Oral Communication

Critical Thinking

Basic Computer Usage

Understanding Social Structure

Problem Solving

Understanding Scientific Concepts &

Application

REQUIRED TEXT: Concepts of Calculus with Applications, first edition by Martha T. Goshaw. You must have a graphic calculator. I will be using a TI-84 in class. You'll also be completing online homework, tests and practice labs. For the online component of the course you will need a student access code (which comes with your new text) and the course ID **walters96924**. If you prefer, you can purchase the access code online and use the available e-book. You must log into the online component of this hybrid course no later than midnight, January 15th.

COURSE DESCRIPTION: This course introduces the concepts of differentiation and integration, and their applications to solving problems. The course is designed for students needing one semester of calculus. Topics include functions, graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion of the course, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate the results. The lab component of this course is designed to enhance classroom activities.

COURSE OBJECTIVES: Upon completion, students should be able to: write the equation of the tangent line to a curve at a specific point; calculate multiple derivatives of an algebraic function; determine over which intervals a function is continuous; identify points of discontinuity of a function; use first and second derivative tests to identify extrema and inflection points; use the first derivative in application problems such as marginal cost, marginal revenue and marginal profit; calculate average rates of change as well as instantaneous rates of change; find antiderivatives and definite integrals of algebraic functions; appropriately apply the definite integral to application problems.

PREREQUISITES: Completion of MAT 161/171**COREQUISITES:** MAT 263A (lab)

EVALUATION: You will have four unit tests weighing 15% of your grade each. **THERE ARE NO MAKE UP OR LATE TESTS! IF YOU MISS A TEST, YOU WILL RECEIVE A GRADE OF "0"**. You may replace the lowest test grade with your final exam grade. You will have labs as well as online homework to be completed outside of class to enhance your understanding of the material. The average of all your online homework/quizzes and lab assignments will represent 20% of your final course grade. You will have a comprehensive final exam worth 20% of your course grade. **THERE WILL BE NO MAKE UP OR LATE HOMEWORK OR LABS ACCEPTED! LABS:** Labs will consist of worksheets. The assignments will enhance classroom instruction and prepare you for unit exams. You may use your notes, book and partners for labs. Labs will not be accepted late. The grading scale is as follows:

92 - 100	A
84 - 91	B
76 - 83	C
68 - 75	D
67 - below	F

We will be covering Topics 0 – 24, Units 0 – 3, in your text.

Test dates: Test 1, January 30th, Topics 1 – 6. Test 2, February 28th, Topics 7 – 13. Test 3, March 30th, Topics 14 – 19. Test 4, April 27th, Topics 20 – 24. Comprehensive Final Exam, May 2nd.

ATTENDANCE: “Students must be in attendance at least eighty (80%) percent of the clock hours of a course to receive credit for the course. Those who do not meet minimum attendance requirements will be given the grade of “F”, which will be computed in the students’ grade point average as a failing grade.” “Attendance in online (Internet) courses is measured not only by initial log-in (first 8 days of the semester) but also by completion of 80% of the required course work.” (CFCC Catalog, page 19) Thus, you must meet two conditions in order to receive credit for this course. (1) You must not miss more than 6 class meetings. (2) You must complete at least 80% of all assignments (in-class and online combined). If you exceed either of these limits you will receive a grade of “F” for the course and the lab. You must arrive to class on time. Once class has begun, you may not leave and return in the same 75-minute class period. If you experience some emergency that requires you to leave during class, take all your materials and do not return until the next class period.

CELL PHONES: Cell phones should be turned off prior to entering the classroom. If I hear your cell phone ring during class or I observe you texting, **5 points will be deducted from your next test grade.** If there are no more tests left, your final exam grade will be reduced by 5 points. Remove all head phones and headsets when entering the classroom.

TEST TAKING: Come to class early on test dates. **You will not be admitted into the classroom late on test dates; therefore, arrive early.** If the door is closed, you will receive a grade of “0” for that test. Be prepared, have a pencil and your calculator (check your calculator batteries the night before). You will not be allowed to share calculators on tests. **Turn cell phones off prior to entering the classroom. Remove all head phones and headsets when entering the classroom.** Come into the classroom ready to take the exam, do any last minute review or studying outside of the classroom. Remove everything from the top of your desk except your pencil and calculator. If scrap paper is needed, I will provide it. Once you have entered the classroom on exam days, you may not leave until you have completed the test. If you leave the classroom during an exam, you must turn in the exam and will not be allowed to return and continue working on it. If you finish the exam prior to the end of the class period, you may leave quietly after turning in your test. You may not ask me any questions during the test!

CHEATING: Following the procedures outlined in the 2009-2010 CFCC’s catalog on page 23, if I observe you cheating on an exam, you will receive a grade of “0” for that exam. If I observe you cheating on more than one exam, you will receive a grade of “F” for the course.

Student Email: myCFCC is your student web portal - there you can access your class websites, email, and WebAdvisor (official academic info such as grades, transcripts, schedules, etc). Your official CFCC-provided email account is to be used for all e-mail correspondence with your instructors and CFCC staff. Some information from CFCC will ONLY be emailed to this address, and not sent through postal mail, so it is very important that you check this account. To access this account, visit the myCFCC portal - there is a link to the portal near the top of the CFCC.edu website. Login and click the Email link. Your username is part of your email address: user@mail.cfcc.edu. (Note if you've had a CFCC email address in the past, this one differs because we've changed 'email' to 'mail' in the address.) This email account is provided to you as long as you are enrolled in classes (you can take the summer off), and may be used for personal email as well as academic email. The class websites linked from the portal are automatically created for every class - it is up to the instructors to decide whether and how to use them. Even if they are not used, you can send an email to your instructor by clicking the Send Email link on your class homepage.

Disability Services: If you are a person with a disability and anticipate needing accommodations of any type in order to access or participate in this class, you must contact the Disability Support Services Office (Galehouse Bldg. room A215, 362-7012 or 362- 7158), provide the necessary documentation of the disability and arrange for the appropriate authorized accommodations. All information shared with the Disability Support Services Office is protected as confidential.

Tobacco use is prohibited on all CFCC property. The first offense is a warning and the second offense may result in disciplinary action.

Students will be allowed two days of excused absence each academic year for religious observances required by the faith of the student. These excused absences will be included in the twenty (20%) percent of allowable clock hour absences. Students are required to provide written notice of the request for an excused absence by completing the Religious Observance Absence form available in Student Development. The completed form must be submitted to the Vice President of Student Development or his/her designee a minimum of ten (10) school days prior to the religious observance. The Vice President of Student Development or his/her designee will notify the instructor within three (3) school days of receiving the request. Students will be given the opportunity to make up any tests or other work missed due to the excused absence and should work with their instructors in advance of the excused absence to delineate how to make up the missed coursework.

Disclaimer: Information contained in this syllabus was, to the best knowledge of the instructor, considered correct and complete when distributed for use at the beginning of the semester. The instructor reserves the right, acting within the policies and procedures of Cape Fear Community College, to make changes in course content or instructional techniques without notice or obligation.