Course Information

Instructor: Dr. Justin T. Webster
Lecture/Auxiliary Day: M, W, R, F
Sec. 05 - 11:00–11:50 MWF, Maybank 117; 10:50–12:05 R, Maybank 112;
TA for 120 Sections: Daniel Imholz  TA Office Hours: (contact me)
Text: J. Stewart, Early Transcendentals, 8th Ed. (WebAssign code required)
Office Hours: M, 14:30–16:00; W, 16:00–17:30; R, 09:30–10:30, and by appt.*

Contact Information

Phone: 843/953-1040
Email: websterj@cofc.edu
Office: RSS 333
Course Website:
http://websterj.people.cofc.edu/
JustinsHomepageForStudents.html

Office Hours: M, 14:30–16:00; W, 16:00–17:30; R, 09:30–10:30, and by appt.*

This is a four credit-hour course which is the first of three semesters in the calculus sequence for students in mathematics and the natural sciences. It includes the calculus of algebraic, trigonometric, inverse and hyperbolic trigonometric, exponential and logarithmic functions. It will cover limits (including some $\varepsilon-\delta$ proofs), continuity, derivatives, the Mean Value Theorem, applications of derivatives, the Riemann integral, and the Fundamental Theorem of Calculus. For more details, see the list of student outcomes below. Students are expected to display a thorough understanding of the techniques related to these topics and, to some extent, the theory behind them.

Prerequisites: A command of precalculus, including fluency with trigonometric, exponential, and logarithmic functions.

The following are the course policies. These policies may be changed at any time; changes will be announced in class.

Contacting Me: I will typically be in my office during office hours. If I am not, I will post a note on my door. The best way to contact me is via email. I will respond within 24 hours, but do not expect an immediate response. *Please schedule all appointments outside of office hours through e-mail, with at least 24 hour notice. Students are responsible for all announcements made in class, and any e-mail sent to the primary CofC email account! Announcements and files to download will be posted on the course website (listed above), and sometimes on OAKS (the College’s central information system, via MyCharleston). Please check these sources often. (I recommend checking the course website—via my homepage—every other day.)

Assignments: Weekly online homework will be assigned, worked, and graded via WebAssign [https://www.webassign.net/login.html]. To use Webassign you need to purchase an access code online with a credit card. The best way to do this is to purchase the bundle with your textbook. Use the following information to locate your course section:

Section 05 - cofc 1186 8897.

No extensions will be granted and nothing late will be accepted under any circumstance.

Suggested Exercises: Each week I will post a handful of “optional” HW problems (from the text or written by me) on the course website. The problems will often be involved, multi-part, and/or conceptual in nature. These will not be handed in and I will not post solutions. (Students can certainly bring their work to office hours and I will check them; additionally, resources certainly exist online and elsewhere to check solutions.) I will draw heavily from these questions when writing my quizzes and tests.

Quizzes/Activities: A quiz or activity (in-class or take-home) will happen approximately weekly. Once material is covered in class, it is valid for quizzes, assignments, and exams. No make-ups will be granted under any circumstance, though I will drop your lowest two quiz/activity scores.

Tests: There will be three in-class, mid-term tests. These tests can vary in format and will include both computational and conceptual questions. If a student must miss a test, a week’s notification is strongly suggested—seven full days—including the reason for the absence. The request will be honored at my discretion (typically only in emergency/exceptional cases), with the details of the makeup exam to be determined at that time. I will allow the possibility of replacing your lowest exam score with your final exam score, if the latter is higher.

Test 1 - Thursday, Sep. 22nd (75 min)  Test 2 - Thursday, Oct. 20th (75 min)
Test 3 - Monday, Nov. 21st (50 min)  Final Exam - Saturday, Dec. 10th, 12–3pm
**Enrichments**: Two writing (research/expository) assignments (referred to as *enrichment assignments*) will also be given throughout the semester. The point of these assignments is to give students opportunities to work on their mathematical expository and research skills. Approximate due dates:

**Enrichment 1** - Mon., Oct. 10th; **Enrichment 2** - Mon., Nov. 14th

**Final Exam**: There will be a comprehensive final exam with a date and time determined by our class meeting time (see below). The date and time of the final are *absolutely* fixed, and only in the most extreme cases will arrangements be made to reschedule. This exam is co-written by all MATH 120 instructors (unlike the midterms). Its content will be much more focused, representing a bird’s eye view of the course.

**Calculator and Notes Policy**: Calculators and books are not allowed for any quizzes, tests, or the exam *unless explicitly stated otherwise*. (You will not need them on my exams.) However, the use of calculators and technology is not prohibited (and sometimes encouraged/recommended) on homework.

**Grading**: Grades will be assigned based on raw percentages in the standard 100 percent scale: A: \( \geq 93 \); A-: \([90,93)\); B+: \([87,90)\); B: \([83,87)\); B-: \([80,83)\); C+: \([77,80)\); C: \([73,77)\) C-: \([70,73)\); D+: \([67,70)\); D: \([63,67)\); D-: \([60,63)\); F: < 60. *During the semester, grades will not be rounded, and there will be no curve for tests or work.* However, I reserve the right to adjust final grades based on factors such as attendance, participation, and demonstrated effort towards understanding the material. I also reserve the right to perform a “mean-shift” to the the final course distribution (always “upward”, if at all). The final grade breakdown is as follows:

Tests – 30%  Final Exam – 25%  WebAssign – 15%  Quizzes/Activities – 15%
Enrichment I and II – 15%

In this course I will assign midterm grades (which have no ultimate bearing) based on the following breakdown:

Test I and II – 40%  WebAssign – 20%  Quizzes/Activities – 20%  Enrichment I – 20%

**General Education Student Learning Outcomes**: Students are expected to display a thorough understanding of the topics covered. In particular, upon completion of the course, students will be able to:

- Model phenomena in mathematical terms,
- Solve problems using these models,
- and Demonstrate an understanding of the supporting theory behind the models apart from any particular application.

These outcomes will be assessed on the final exam.

**Course Specific Student Learning Outcomes**: Students are expected to display a thorough understanding of the topics covered. In particular, upon completion of the course, students will be able to:

- Calculate a wide variety of limits, including derivatives using the limit definition and limits computed using l’Hopital’s rule;
- Demonstrate understanding of the main theorems of one-variable calculus (including the Intermediate and Mean Value Theorems, and the Fundamental Theorem of Calculus) by using them to answer questions;
- Compute derivatives of functions with formulas involving elementary polynomial, rational, trigonometric, exponential and logarithmic functions;
- Use information about the derivative(s) or antiderivative of a function (in graphical or symbolic form) to understand a function’s behavior and sketch its graph;
- Construct models and use them to solve related rates and optimization problems;
• Recognize functions defined by integrals and find their derivatives;

• Approximate the values of integrals geometrically or by using Riemann sums;

• Evaluate integrals by finding simple antiderivatives and by applying the method of substitution.

• Clearly communicate mathematical ideas and neatly present solutions to problems.

(The above list is representative, though not necessarily complete; there may be topics covered in class and on assessments which do not exactly fit a bullet point above.) These outcomes will be assessed in the quizzes/activities, tests, enrichments, and final exam.

**Weekly Schedule:** Monday, Wednesday, and Friday will almost always be lectures. Thursday will be a designated “auxiliary day”. This will mean class is either a quiz/activity, lecture, review session, or test.

**Etiquette, Please:** Make sure your cell phone is silent, and do not use laptops or cell phones during class. If in attendance, please commit to sitting through the entire lecture. Lastly, please comment and ask questions during the lecture by raising your hand.

**Attendance:** Attendance will be taken during the first two weeks for administrative purposes. Attendance will not factor into the overall grade, but there are obvious ramifications for missing more than a couple class sessions. I will record absences for a student if they occur in excess; I reserves the right to invoke withdrawal due to absences for any student with more than five absences during the semester.

**Getting Help:** Do not wait to get help if you need it. The smallest confusion can compound and have dire effects on one’s understanding (and hence, grade). I strongly encourage each student to visit my office hours or make an appointment. Also, you can find information about the CoC Math Lab (and more generally, the center for student learning) at [http://csl.cofc.edu/labs/math-lab/](http://csl.cofc.edu/labs/math-lab/) (located in the Addlestone Library).

I encourage you to utilize the Center for Student Learning’s (CSL) academic support services for assistance in study strategies and course content. They offer free: walk-in tutoring, by appointment tutoring, study strategies appointments, Peer Academic Coaching (PAC), and Supplemental Instruction (SI). All services are described and all lab schedules are posted on the CSL website. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. The CSL is located on the first floor of the library. For more information regarding these services please visit the CSL website at [http://csl.cofc.edu](http://csl.cofc.edu) or call (843)953-5635.

**Athletes, Veterans, and Other Considerations:** If you are a NCAA or club sports athlete, or have any special circumstances, you should inform me as soon as possible. For veterans, certain additional resources may be available. Special accommodations can be made for scheduling and other specific needs on an individual basis. Please inform me of your situation as soon as possible.

For disability-related needs, documentation may be required. The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services/SNAP (Students Needing Access Parity), located in the Lightsey Center, Suite 104. See [http://disabilityservices.cofc.edu](http://disabilityservices.cofc.edu/). Students approved for accommodations are responsibility for notifying me as soon as possible and for contacting me one week before accommodation is needed.

From SNAP: “We provide services and accommodations for students with disabilities (physical, psychological, learning or attentional) that have been documented by a qualified professional. Documentation must meet criteria published in the SNAP brochure and on our website [http://disabilityservices.cofc.edu](http://disabilityservices.cofc.edu). Accommodations are decided on a case-by-case basis and are determined by the type and severity of the disability and the essential elements of the course the student is taking. Accommodations are designed to provide access to education and to circumvent or reduce the effect of the disability as much as possible, not to give an advantage or guarantee success.”
Important Dates: Please be aware of the following dates:

drop deadline - Monday, Aug. 29;
Fall break - Nov. 7–8;  last day of classes - Dec. 5;
midterm grades due - Friday, Oct. 21;  reading day - Dec. 6;
Thanksgiving holiday - Nov. 23–27;  finals - Dec. 7–14;

Honor Issues: Do not cheat! If I find out, I will make it extremely embarrassing for you; and otherwise, cheating makes you a bad person. The academic environment is hallowed, and by cheating you are taking advantage of your institution, this class, and each of your fellow students. I do encourage students to work together, but do not copy from other students and read all directions on assignments and tests. Bear in mind that you are under the CoC Honor Code: [http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php](http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php)

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved. Incidents where the instructor determines the student’s actions are related more to a misunderstanding will handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student’s file. Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board. Students should be aware that unauthorized collaboration—working together without permission— is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others’ exams, fabricating data, and giving unauthorized assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.

Students can find a complete version of the Honor Code and all related processes in the Student Handbook.

Course Evaluations and Feedback: I take course evaluations seriously, and as such, I would ask that you complete them. Please provide objective and honest feedback through the OAKS system. I will provide around 15 minutes on the final day of class for you to complete course evaluations (though you may certainly complete them on your own time outside of class). Additionally, polite feedback about the course (during the semester) is encouraged.