

Math 105 - Fall 2016 -Section 1

Syllabus

Professor: Ben Cox coxbl"at"cofc.edu

Office: Robert Scott Small Rm 348, Ph. 953-5715.

Office Hours: Monday, Wednesday 12:30-1:30 p.m.

Additional help: Math Lab, Addlestone Library 953-5635
Hope Florence, Director
Hours: 10AM - 9PM Monday - Thursday, 10AM - 1PM Friday, 6PM - 9PM Sunday
See also: [Math Lab](#)

Class Meeting Time:

Math 105 Calc for Bus & Soc Scien 12205 -TTR 4:00 pm- 5:15 pm
MAYBANK HALL 206

Textbook: Calculus and its applications, 13th edition. Goldstein, Lay et. al. Pearson.

ALT: You may use the ebook, or the shortened version "Brief Calculus and its applications" by the same authors.

Prerequisites. Math 101 College algebra or placement.

Material to be Covered: We will cover most of
Chapter 0: Functions 0.2-0.6
Chapter 1: The Derivative 1.1-1.3, 1.5-1.8
Chapter 2: Applications of the Derivative 2.1-2.3, 2.5, 2.7
Chapter 3: Techniques of Differentiation: 3.1, 3.2
Chapter 4: Exponential and Log functions 4.1-4.5
Chapter 5: Applications of $\exp x$ and $\ln x$ 5.1-5.3
Chapter 7: Functions of several variables, optimization 7.1-7.4
Chapter 6: The Definite integral, applications 6.1-6.3, 6.5

Attendance and WA policy. Students missing in excess of four classes for any reason may be given a WA grade. If you miss a class, you are responsible for all material covered during the class. Contact another student for the notes, and monitor the HW due dates via My Math Lab.

Calculators: A graphing calculator is required for this course. We strongly recommend that you get a TI-81, -83, -85, or 86 for the course. No programmable calculators are allowed on the exams.

Homework: Problems from the text will due at the end of nearly each week, on Sundays. We will be using [My Math Lab](#) homework for our course.

Important Dates: In-class tests take place on **Sept. 20** and **Oct. 25**. The last date to withdraw from class with a grade of W is Oct. 27. The final exam for this course takes place on

Tuesday 12/13, 4:00-7:00 p.m.

Grade Formula: Each midterm will be worth 25%, the final will be worth 35% and the homework 15%.

Letter Grades

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-
Lower Bound	90%	85%	83%	78%	75%	73%	68%	65%	63%	58%	55%

Make-ups: Late homework will be accepted and make-up exams will be given only in the cases of verifiable illness or family emergency.

Student Learning Outcomes:

After successfully completing Math 105 (calculus for students in business and social sciences), students will

1. understand the algebraic and geometric meanings of limits, derivatives, and integrals,
2. understand functions of one or more variables, graphs, and the meaning of their shapes,
3. be able to use functions and graphs to model phenomena relevant to business and social science.

These outcomes will be assessed on homework, tests, quizzes, and the final exam.

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

1. model phenomena in mathematical terms,
2. solve problems using these models, and
3. demonstrate an understanding of the supporting theory behind the models apart from any particular application.

These outcomes will be assessed on the final exam.

Disability Services (see also <http://disabilityservices.cofc.edu>)

The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services / SNAP, located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.

Honor Code and Academic Integrity (language provided by the Dean of Students -see <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 instance is examined to determine the degree of deception involved.

Incidents where the professor believes the student's actions are clearly related more to ignorance, miscommunication, or uncertainty, can be addressed by consultation with the student. We will craft a written resolution designed to help prevent the student from repeating the error in the future. The resolution, submitted by form and signed by both the professor and the student, is forwarded to the Dean of Students and remains on file.

Cases of suspected academic dishonesty will be reported directly to the Dean of Students. A student found responsible for academic dishonesty will receive a XF 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 X to be expunged. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

It is important for students to remember that unauthorized collaboration--working together without permission--is a form of cheating. Unless a professor specifies that students can work together on an assignment and/or test, no collaboration is permitted. Other forms of cheating include possessing or using an unauthorized study aid (such as a PDA), copying from another's exam, fabricating data, and giving unauthorized assistance.

Remember, 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 professor.

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