Instructor: Yorck Sommerhäuser

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Office hours: Monday, Wednesday, 10:00 am–12:00 m, Thursday 10:30 am–12:30 pm

Prerequisites: C or better in Calculus I (MA 125) or an equivalent course

Textbook: J. Rogawski, Calculus: Early transcendentals, 1st ed., W. H. Freeman, New York, 2008

Course description: The course is a continuation of Calculus I. We define definite integrals and explain the fundamental theorem of calculus. We then cover the basic integration techniques like the substitution rule and integration by parts. These techniques are then applied to area and volume computations. After treating various aspects of series, especially Taylor series, we finally consider arc length computations, both in Cartesian coordinates and in polar coordinates.

Objectives: The goal of the course is to introduce the student to integral calculus, both theoretically and practically. Practically, the student will acquire the skill to compute the fundamental integrals. Theoretically, the student will learn the basic notions and theorems, like the concept of Riemann sums, the fundamental theorem of calculus, or the substitution rule. In this way, the student's ability to think logically is enhanced, and he develops an understanding how a theory is systematically developed.

Coverage: We cover the majority of the material from Chapter 5-11 in the textbook, with the exception of Chapter 9, which is not treated.

Attendance: Attendance is required and contributes to the final grade. Three classes may be missed without affecting this grade. Absence in more than half of the classes results in failing the entire course.

Exams: There will be two midterm exams and a comprehensive final exam. No make-up exams will be offered. Textbooks, notes, calculators, and other electronic devices must not be used during the exam. The midterm exams take place on Wednesday, October 3 and on Wednesday, November 7. The final exam takes place on Monday, December 10, from 1:00 pm until 3:00 pm.

Homework: The daily homework assignment will consist of a reading assignment and a problem assignment. One or two problems of the daily problem

assignment have to be completed online via the Sakai site of the course at http://ecampus.southalabama.edu. The time frame for this completion begins after the lecture in which the problem was assigned, and ends one hour before the next lecture.

Quizzes: Every week, there will be a short quiz. No make-up quizzes will be offered. However, the two lowest quiz grades will be dropped.

Grading weights:

Attendance:	5%
Online homework:	15%
Quizzes:	15~%
Midterm exams:	20% each
Final exam:	25%

Grading scale:

A: 90%
B: 80%
C: 70 %
D: 60%

Policies: Eating, drinking, and smoking is not permitted in the classroom. The use of electronic devices such as laptops, i-pods, cellphones, or calculators is not allowed unless explicitly stated by the professor. Cellphones may be brought to class, but must be completely off and stowed away. Furthermore, the policies described in the student handbook 'The Lowdown' apply.

Tutoring: The tutoring laboratory in ILB 235 provides additional help for this course.

Disabled students: If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from the Office for Special Student Services, which is located at 5828 Old Shell Road (Tel. 460-7212).

SACS requirement: In order to maintain accreditation with the Southern Association of Colleges and Schools, the University of South Alabama deems it necessary that the following sentence is on the syllabus: Student Learning - Quantitative Reasoning is the ability to systematically analyze quantitative concepts, evidence, processes, and outcomes to reach a rational conclusion.

JagAlert: JagAlert is an academic program intended to help students be successful in 100 and 200 level courses. If you are not doing well, you will receive an email instructing you to see your professor and academic advisor. Watch for the JagAlert email around week 6 of this semester.