MAC2312 Calculus with Analytic Geometry II (4 credits)

A. **Term:** Spring 2026
B. **Section:** 41
C. **Delivery Method(s)/Location:**
In person, classroom and time available on course schedule at my.fsu.edu, 50 minute meetings Monday, 75 minute meetings Tuesday and Thursday.

D. **Instructor Information**
Name: TA supervised by course coordinator [Richard Oberlin]
Contact Information: TA TBD, supervisor: roberlin@math.fsu.edu
Office Hours: TBD (see canvas)
Office Location: TBD (see canvas)

E. **Prerequisites or Co-requisites**
Prerequisites: MAC 2311 (C- or better)

F. **Course Description**
This course covers techniques of integration; applications of integration; series and Taylor series; differential equations. This course must be taken for reduced credit by students with prior credit for some of the content.

G. **Course Objectives**
1. Students will develop their ability to analyze problems mathematically, assign variables, identify appropriate functions, and apply proper tools to find a solution.
2. Students will also improve their ability to describe problems and solutions using proper vocabulary.
3. Students will demonstrate mastery through discussions, activities, presentations, and performance on homework assignments and tests. In particular, through calculus 2, students will...
    - calculate integrals using antiderivatives and numerical methods;
    - use the integral to calculate volumes, areas, and arclengths;
    - test the convergence of sequences and series;
    - approximate functions using power series;
    - model real-world phenomena using differential equations;
    - work alone and with classmates to create well written solutions;
    - discuss and explain course material to their peers.

H. **CoreFSU Syllabus Language**
This course has been approved to meet FSU's CoreFSU Quantitative and Logical Thinking requirements and helps you become a critical analyst of quantitative and logical claims.

In order to fulfill the State of Florida’s College mathematics and computation requirement the student must earn a “C–” or better in the course.

By the end of the course, students will demonstrate the ability to:

1. Select and apply appropriate methods (i.e., mathematical, statistical, logical, and/or computational models or principles) to solve real-world problems.
2. Use a variety of forms to represent problems and their solutions.

I. Required Texts, Readings, and/or other Resources

The text for FSU Calculus is *Calculus: Single and Multivariable,* 8th edition, by Hughes-Hallett, Gleason, and McCallum; supported by WileyPlus.

Calculus 2 is participating in the Follett inclusive access program, so **if you do nothing** you will be automatically given access to the online course materials and your fee of $50 will be included with your tuition and fees. Further details about the course material and purchase options are here: https://www.math.fsu.edu/~pkirby/calctext/.

First, start by watching the video linked here. This video not only contains instructions for registering for WileyPLUS, but also gives a walkthrough of all of the features of WileyPLUS, including how to access your assignments, how to access the textbook, how your assignments are structured, etc. Refer back to this video if you have any questions about navigating the WileyPLUS site/resources.

Please use your my.fsu.edu email/Canvas information to register for both WileyPLUS and VitalSource (Vitalsource is an optional app alternative for viewing the text). All of the information used in Canvas, WileyPLUS, and VitalSource should match (using your FSU info is the easiest way to ensure this.)

The first time you access your eText through WileyPLUS you will be prompted to sign into VitalSource.

- If you have a VitalSource account enter your email to sign in
- If you are new to VitalSource enter in your preferred email to create an account
- If you wish to not create an account, click “No thanks, I’ll skip this step”
    - NOTE: If you use this option, you **WILL NOT** be able to access your eText on the mobile app

*Print option: WileyPLUS is included with your Follett access fee. There is a print option available through the bookstore that has been discounted for Follett access students. Please contact the bookstore if you are interested.

J. Course Schedule/Topical Outline

MAC 2312 covers material from chapters 7-11 of the text. The following is intended to provide an approximate and tentative idea as to course pacing:

- Weeks 1-4, Chapter 7
- Weeks 5-6, Chapter 8
- Weeks 7-9, Chapter 9
- Weeks 10-11, Chapter 10
- Weeks 12-15, Chapter 11

K. Grading/Evaluation

There will be weekly homework and 8-10 quizzes, four in class midterm exams, and a final exam (the homework may consist of written and/or online assignments of various forms). Numerical course grades will be determined according to the following percentages.

- 70% Exam Grade Average
- 30% Homework and Quizzes

Letter grades will be determined from numerical grades as follows:

Grade	Range
A	100% to 93%
A-	< 93% to 90%
B+	< 90% to 87%
B	< 87% to 83%
B-	< 83% to 80%
C+	< 80% to 77%
C	< 77% to 73%
C-	< 73% to 70%
D+	< 70% to 67%
D	< 67% to 63%
D-	< 63% to 60%
F	< 60% to 0%

(Departmental Policy on Incompletes: A grade of I will not be given to avoid a grade of F or to give additional study time.)

Exams and the final exam are given in-person. Online exams will only be used in emergency situations (for example, the University moves all class activities online in response to the COVID crisis). Quizzes and homework may be online or may be in class.

Collaboration, group work, and the use of AI assistance is strictly prohibited unless explicitly stated otherwise by the instructor.

L. Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation statement, this syllabus is a guide for the course and is subject to change with advance notice.

M. University Policies and Syllabus Language

Visit link below to review
University Attendance Policy
Academic Honor Policy
Americans With Disabilities Act

Academic Success
Free Tutoring from FSU
Statement on Public Health Protocols
https://facsenate.fsu.edu/Curriculum-Resources/syllabus-language