MATH 114: Analytic Geometry and Calculus II

Ermias Kassaye

Summer 2023

E-mail: ekassaye@gmu.edu (If I don't respond in 24 hours, feel free to email again!)

Office Hours: MW 1:15pm - 2:15pm or By Appointment
Class Time: MTWRF 10:30am - 12:50pm

Recitation Time: TR 1:30pm - 2:45pm

Course Description

We will learn about applications of integrals, transcendental functions, techniques of integration, differential equations, sequences and series, and parametric and polar curves (Chapters 6-11).

Required Materials

Our textbook is Thomas' Calculus (Early Transcendentals) by Hass, Heil and Weir (fourteenth edition, Pearson publisher). We cover most of Chapters 6 to 11. **We will also use MyMathLab from Pearson.**

Course ID: kassaye38721

For additional instructions on how to register, see the Blackboard page under "Syllabus".

Prerequisites

C or better in MATH 113 or in both MATH 123 and 124.

Course Structure

Lecture

You are expected to attend and participate in the lecture classes. Lectures will cover new material.

Exams will be given during the lecture time, tentative dates listed below.

Recitation

You are expected to attend and participate in the weekly recitations. You are expected to attend the lecture before recitation. Recitations will review material learned in lecture. Assignments will cover practice problems similar to your quiz or a worksheet applying methods learned throughout the week. Two recitation attendances will be dropped.

Homework

There will be daily homework assigned based off the lecture of the day. **All homework will be given in MyMathLab and due weekly each Sunday at 11:59 pm.** You do not have to complete the homework every day after lecture, as long as it is submitted by Sunday at 11:59pm of the same week it is assigned. Each question allows for a maximum of four attempts.

Quizzes

There will be weekly quizzes given during lecture class. Quizzes can include any material covered in M-R lectures of the same week. You are not permitted to use any outside materials, resources, or electronic devices (including but not limited to non-approved calculators, mobile phones, smartwatches, etc.) on the quizzes.

The quiz schedules for the following sections are as follows

1. Section 6.1 (2 questions), Section 6.2 (2 questions), and Section 7.1 and 7.2 (2 questions) on Friday, May 26, 2023. The quizzes will be available in MyLabMath with one attempt per question, and an average of 10 minutes will be allowed for each question. Please arrive at 10:30 AM to begin the quiz. The lecture will commence at 11:30 AM.

2. Section 8.2 (2 questions), Section 8.2 and section 8.3 (2 questions), and Section 8.5 (2 questions) and Section 8.8 (2 questions) on Thursday, June 01, 2023. The quizzes will be available in MyLabMath with one attempt per question, and an average of 10 minutes will be allowed for each question. Please arrive at 10:30 AM to begin the quiz. The lecture will commence at 11:30 AM.

3. Section 10.1 (2 questions) and section 10.2 (2 questions) on Friday, June 09, 2023. The quizzes will be available in MyLabMath with one attempt per question, and an average of 10 minutes will be allowed for each question. Please arrive at 10:30 AM to begin the quiz. The lecture will commence at 11:30 AM.

4. Section 10.3 and 10.4 (2 questions) and Section 10.5 and 10.6 (2 questions) on Wednesday, June 14, 2023. The quizzes will be available in MyLabMath with one attempt per question, and an average of 10 minutes will be allowed for each question. Please arrive at 10:30 AM to begin the quiz. The lecture will commence at 11:30 AM.

5. Section 10.7 (2 questions), Section 10.8 (2 questions), and Section 10.7 and 10.8 (2 questions) on Tuesday, June 20, 2023. The quizzes will be available in MyLabMath with one attempt per question, and an average of 10 minutes will be allowed for each question. Please arrive at 10:30 AM to begin the quiz. The lecture will commence at 11:30 AM.

Lecture and Recitation Participation

In lectures, students will receive participation credit based on lecture participation. Lecture participation can be earned by answering questions, sharing solutions to practice problems, etc. Group work is always encouraged!

In recitations, students will receive participation credit based on participation in the activity or worksheet given. Students are expected to work at/on the white boards. Group work is always encouraged!

Exams/Final

There will be two exams and a final throughout the semester. The final exam will be cumulative. **Exams must be taken on the given date.** You are not permitted to use any outside materials, resources, or electronic devices (including but not limited to non-approved calculators, mobile phones, smartwatches, etc.) on the exams.

The tentative exam dates are

Exam 1: June 02, 2023 at 10:30 AM

Exam 2: June 15, 2023 at 10:30 AM

Grading Policy

- **20%** Homework; **10%** Quizzes; **10%** Recitation participation
- **15%** Exam 1 (June 02)
- **15%** Exam 2 (June 15)
- **25 %** Final Exam (Cumulative) (June 22 10:30am – 1:10 pm)

- **Grading scale:**

A-: 90 - 92; A: 92 – 98; A+: 98 – 100; B-: 80 - 82; B: 82 – 88;
B+: 88 – 90; C-: 70 - 72; C: 72 – 78; C+: 78 – 80; D: 60 - 70; F: 0 – 60.

Course Policies

Attendance Policy

You are required to attend Recitations. Two recitation attendances will be dropped. Lecture notes will be posted for your convenience.

Policies on Missed Classes and Late Assignments

There will be **no make-up class participation, quizzes, or exams.** Homework can be completed late, up until the next exam date for partial credit. Contact your instructor as soon as possible regarding your extenuating circumstance for consideration of an exception.

Academic Integrity and Honesty

You are expected to follow the GMU Honor Code. Cheating and attempted cheating, plagiarism, lying, and stealing in academic matters constitute Honor Code violations. To maintain an academic community according to these standards, students and faculty members must report all alleged violations to the Honor Committee. For more information and the complete policy, see https://catalog.gmu.edu/policies/honor-code-system/.

Quizzes and Exams are to be completed individually. I encourage group work on homework and class assignments, but all students must submit an assignment for grading purposes. In compliance with the federal Family Educational Rights and Privacy Act, registration in this class is understood as permission for assignments prepared for this class to be used anonymously in the future for educational purposes.

Accommodations for Disabilities

If you have a learning or physical difference that may affect your academic work, please see me and contact the Office of Disability Services (ODS) at (703) 993-2474, http://ods.gmu.edu . All academic accommodations must be arranged through the ODS.

Tutoring Center

The Math Tutoring Center is operating during the summer. For hours of operation see https://science.gmu.edu/academics/departments-units/mathematical-sciences/math-tutoring/tutoringcenter-hours-and

Tentative Schedule (May 22, 2023 – June 22, 2023)

Date	Sections Covered
Mon. 05/22/23	First Meet, Ch. 6.1
Tues. 05/23/23	Ch. 6.2, 6.3
Wed. 05/24/23	Ch. 6.4, 6.5
Thurs. 05/25/23	Ch. 7.1, 7.2
Fri. 05/26/23	Ch. 7.3, 8.1
Mon. 05/29/23	Ch. 8.2, 8.3
Tues. 05/30/23	Ch. 8.4, 8.5
Wed. 05/31/23	Ch. 8.7, 8.8
Thurs. 06/01/23	Exam 1: Review
Fri. 06/02/23	Exam 1
Mon. 06/05/23	Ch. 9.1, 9.2
Tues. 06/06/23	Ch. 9.3, 10.1
Wed. 06/07/23	Ch. 10.2, 10.3
Thurs. 06/08/23	Ch. 10.4, 10.5
Fri. 06/09/23	Ch. 10.6, 10.7
Mon. 06/12/23	Ch. 10.8, 10.9
Tues. 06/13/23	Ch. 10.10
Wed. 06/14/23	Exam 2: Review
Thurs. 06/15/23	Exam 2
Fri. 06/16/23	Ch. 11.1, 11.2
Mon. 06/19/23	Ch. 11.3, 11.5
Tues. 06/20/23	Ch. 11.6
Wed. 06/21/23	Final Review
Thurs. 06/22/23	Final exam 10:30 am – 1:15 pm