

# MATH 114: Analytic Geometry and Calculus II

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Summer 2022

**E-mail:** adawkin@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

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\*\*\*Week 3 will be virtual. You are expected to be in-person for all other weeks of class.\*\*\*

## 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:** dawkins80623

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 everyday after lecture, as long as it is submitted by Sunday at 11:59pm of the same week it is assigned.

### Quizzes

There will be weekly quizzes given during Friday's 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 tentative quiz dates are May 27, June 3, June 10\*, and June 17.**

\* Quiz 3 on June 10th will given in MyMathLab.

### 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 May 31, June 8\*, June 16, and June 24.**

\* Exam 2 on June 8th will be taken at the testing center.

## Grading Policy

- 15% Homework
- 10% Quizzes (May 27, June 3, June 10, and June 17)
- 15% Participation
  - 5% Lecture participation
  - 10% Recitation participation
- 15% Exam 1 (May 31)
- 15% Exam 2 (June 8)
- 15% Exam 3 (June 16)
- 15% Final Exam (Cumulative) (June 24 10:30am - 1pm)

## 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/tutoring-center-hours-and>

### **Tentative Schedule**

The schedule is tentative and subject to change.

**\*\*\*Week 3 will be virtual. You are expected to be in-person for all other weeks of class.\*\*\***

- **Before Class:** Review Calc I, Chapters 1-5
- **Week 1** (Quiz 1/Homework 1,2,3): Sections 6.1 - 6.4 and 7.1 - 7.3
- **Week 2** (Exam 1/Quiz 2/Homework 4,5): Sections 8.1 - 8.5
- **Week 3 - Virtual** (Exam 2/Quiz 3/Homework 6,7): Sections 8.7 - 8.8, 9.2, and 10.1 - 10.2
- **Week 4** (Exam 3/Quiz 4/Homework 8,9): Sections 10.3 - 10.10
- **Week 5** (Final Exam/Homework 10): Sections 11.1 - 11.3, Review