MATH 114: Analytic Geometry and Calculus II

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Summer 2021

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Office Hours: MF 11:30-12:20 pm in Zoom (under "Recitations/Office Hours")
Or By Appointment (Times to be finalized)

Class Time: No meeting time. Lecture videos posted under "Lectures".

Recitation Time: MWF 2:30-3:20 pm in Zoom (under "Recitations/Office Hours")

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: dawkins05021

Prerequisites

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

Course Structure

Lecture

Lecture videos will be posted weekly under "Lectures" in Blackboard. **DO NOT FALL BEHIND**, this is a fast pace course.

Recitation

You are expected to <u>attend</u> and <u>participate</u> in the weekly recitations. You are expected to watch the lecture before recitation. **Monday/Wednesday** recitations assignments will cover practice problems similar to your quiz. **Friday** recitation will cover a worksheet applying methods learned throughout the week. <u>Three</u> recitation attendances will be dropped.

To join recitations: "Recitations/Office Hours" > Join Zoom room

Homework

There will be weekly homework based off the lectures for the week. **Homework will be given in MyMathLab and due Fridays at 11:59 pm.**

Quizzes

There will be weekly quizzes, except for the weeks we have an exam. **Quizzes will be given in MyMathLab.** Quizzes will be based off the weeks lectures and homework. **Quizzes will be due Fridays at 11:59 pm.**

Exams/Final

There will be three exams and a final throughout the semester. The final exam will be cumulative. Exams must be taken on the given date.

The tentative exam dates are June 4, June 25, July 16, and July 23.

Grading Policy

- **15%** Homework

- **10%** Quizzes

- **15%** Recitations

  - **5%** Group Worksheet Presentation
  - **10%** Group Activity Participation

- **15%** Exam 1

- **15%** Exam 2

- **15%** Exam 3

- **15%** Final Exam (Cumulative)

Course Policies

Attendance Policy

You are required to attend Recitations. <u>Three</u> recitation attendances will be dropped. Lectures will be posted under "Lectures" and can be watched at your leisure, before our weekly Recitation.

Policies on Missed Recitations and Late Assignments

There will be **no make-up recitations or exams.** Quizzes can be completed late, up until the next exam date for partial credit.

Academic Integrity and Honesty

You are expected to follow the GMU Honor Code: https://oai.gmu.edu/mason-honor-code/

Quizzes and Exams are to be completed individually.

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 online. 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 1** (Quiz 1/Homework 1) Review Calc I, Sections 6.1 - 6.2

- **Week 2** (Quiz 2/Homework 2) Sections 6.3 - 6.4 and 7.1 - 7.3

- **Week 3** (Exam 1/Homework 3) Sections 8.1 - 8.2

- **Week 4** (Quiz 3/Homework 4) Sections 8.3 - 8.5

- **Week 5** (Quiz 4/Homework 5) Sections 8.7 - 8.8 and 9.2

- **Week 6** (Exam 2/Homework 6) Sections 10.1 - 10.2

- **Week 7** (Quiz 5/Homework 7) Sections 10.3 - 10.5

- **Week 8** (Quiz 6/Homework 8) Sections 10.6 - 10.7

- **Week 9** (Exam 3/Homework 9) Sections 10.8 - 10.10

- **Week 10** (Final Exam/Homework 10) Sections 11.1 - 11.3, Review