MATH 141: Calculus II

Summer 2022

Instructor:	Junaid Aftab	**Time:**	MTuWThF: 9:30-10:50 A.M
Email:	junaida@umd.edu	**Place:**	Online on Zoom

Course Description: Math 141 (Calculus II) is a continuation of MATH 140 (Calculus I). The course covers topics such as techniques of integration, improper integrals, applications of integration (such as volumes, work, arc length, moments), inverse functions, exponential and logarithmic functions, sequences and series.

The class will meet **MTuWThF between 9:30 A.M and 10:50 A.M. from May 31, 2022 to July 22, 2022**. The class will be **held online via Zoom**, and the Zoom link will be posted on the ELMS page before the first day of class. **Please log in to ELMS to access the Zoom link for the lectures**. In the case an online class has to be cancelled, I will inform you via email. **Office hours will be on Zoom as well. Please log in to ELMS for the link.**

In case an online class has to be cancelled, I will inform you via ELMS. In case any assignment or exam has to be rescheduled, I will inform you via ELMS.

Prerequisites: The student must have taken MATH 140 with a C- or better, or Math130 with a B- or better.

References: We will be using *Calculus w/ Concepts in Calculus*, by Ellis and Gulick as our main reference. The course covers essentially all of Chapters 6, 7, 8, and 9, part of 10, and complex numbers

Course Page: ELMS will be used to maintain the course page. Here is the link to the course page: https://umd.instructure.com/courses/1333003

Office Hours: Office hours will be on Zoom on **Friday 11:00 A.M - 12:00 P.M.** Check ELMS for the Zoom link.

Grading Policy: There will be attendance, group quizzes, worksheets, three exams, and a cumulative final exam. Here's the rubric:

Attendance	5 %
Groups Quizzes	15 %
Worksheets	10 %
Three Exams	45 % (15 % each)
Final Exam	25 %

Exam dates will be announced in class. I will set the final letter-grade cut-offs based on the class's performance. The cut-offs will be no harsher than standard (100-97% = A+, 97-93% = A, 93-90% = A-, etc).

Honor Code: The UMD Code of Academic Integrity is administered by the Student Honor Council. The Code sets standards for academic integrity. You will be asked to write and sign the following honor pledge on each quiz and exam unless exempted by your instructor:

"I pledge on my honor that I have not given or received any unauthorized assistance on this quiz/examination."

Note that copying solutions from other sources is plagiarism. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.

Course Policy:

- **No calculators** will be allowed on quizzes or exams.
- **Make-up exams will only be given for absences deemed "excused"** in accordance with University policies. Please see the link below.
- Students requiring special exam accommodations should register with the University's Accessibility and Disability Service (ADS) to make appropriate testing arrangements with them. Please see the link below.

- **Cheating is bad! Don't do it.** Any type of academic dishonesty, direct or indirect, will not be tolerated under any circumstances and will be reported to the University's Student Honor Council.

Class Policy:

- Everyone is encouraged to both attend and participate in class. **Hence** 5% **of your grade will be determine by your attendance in class**. Please attend class, and ask questions. Chances are if you're confused about something, other students are also confused about the same thing.
- We will have several 15-minute group quizzes every week or every other week in class. Students will be divided into randomly generated breakout groups on Zoom. Students in each breakout room are encouraged to discuss the problems with their classmates. **At the end of the quiz, each student will upload their work on GradeScope.**
- Worksheets, which will play the role of practice homework problems, will be uploaded online every week. **The worksheet problems will be graded only for completion. Students are expected to upload their work on GradeScope.**

Tentative Course Outline:

Chapter 6: Applications of the Integral
Chapter 7: Inverse Functions, L'Hôpital's Rule: & Differential Equations
Chapter 8: Techniques of Integration
Chapter 9: Sequence and Series
Chapter 10: Curves in the Plane

External Resources:

- University website: https://www.umd.edu
- Math Department Test Bank: ter.ps/mathtestbank
- Math department tutoring: www-math.umd.edu/undergraduate/resources.html
- University make-up policy: www.testudo.umd.edu/soc/atedasse.html
- Other university tutoring: www.tutoring.umd.edu
- Accessibility and Disability Service (ADS): www.counseling.umd.edu/ads/
- University Emergency Phone Line: 301-405-7669