Syllabus Quick Facts

MATH 141: Calculus I — Fall 2024

Course Information

Instructor Email: cm264@mailbox.sc.edu
Course Webpage: https://coffeeintotheorems.com/courses/2024-2/fall/math-141/
Office Hours: The instructor's office is LeConte 345C. The office hours are Monday, Wednesday, and Friday from 12:00pm to 1:00pm, and Tuesday/Thursday from 11:30am until 12:30pm.

Grading Components

Course grades are determined by the following components:

Check-Ins	5%
Labs	10%
Gateway Exams	10%
Homework	20%
Exam I–III	30%
Final Exam	25%

Attendance

Attend each lecture and show up on time. Address any absences—anticipated or otherwise—with the instructor. If you miss a lecture, you are responsible for any material covered, any work assigned, any course changes made, etc. during the class. Five or more unexcused absences from lectures could result in receiving a grade penalty per additional absence or an 'F' in the course. Furthermore, excessive lateness will also count as an absence.

Check-Ins

There will be a check-ins *every* class, typically at the start of class. Because solutions will often then be immediately discussed, no make-up check-ins will be given (except under extraordinary circumstances).

Labs

Nearly every week, students will have a lab to complete using SageMath. These labs will help engage them with the material and learn some basic programming skills. Students will have a designated lab time to work on these labs. However, if a student does not complete their lab during this time, they are still expected to complete and submit the lab on time.

Gateways

There are two Gateway exams during the semester. The Gateway exams are 30 minute exams that will help students to achieve mastery over basic Precalculus (Gateway I) and differentiation (Gateway II) skills and help assure students that they are prepared for the future material.

Homeworks

there will be weekly homework assignments. Homeworks will mostly be given and submitted using MyMathLab. Therefore, students will need to purchase an access code to this system at http://www.mymathlab.com. Students can also purchase access to a digital copy of the textbook when they purchase an access code.

Exams

There will be three exams in this course, each worth 10% of the course grade for a total of 30% of the course grade. There will also be a final exam worth 25% of the course grade. Together, all exams are worth 55% of the course grade.

Course Schedule

The following is a *tentative* schedule for the course and is subject to change.

Date	Topic(s)	Date	Topic(s)
01/13	Course Introduction	03/07	Exam 2
01/14	Gateway I	03/10	Spring Break
01/15	Graphical Limits	03/11	Spring Break
01/16	Lab 1	03/12	Spring Break
01/17	Special Limits	03/13	Spring Break
01/20	MLK Day (No Class)	03/14	Spring Break
01/21	Gateway I	03/17	Int. Value Theorem
01/22	Special Limits	03/18	Lab 6
01/23	Recitation	03/19	Mean Value Theorem
01/24	Review	03/20	Recitation
01/27	Continuity	03/21	Integral Introduction
01/28	Recitation	03/24	Integral Introduction
01/29	Derivative Introduction	03/25	Lab 7
01/30	Lab 2	03/26	Fund. Thm. of Calculus
01/31	Derivative Rules	03/27	Recitation
02/03	Derivative Rules	03/28	Fund. Thm. of Calculus
02/04	Recitation	03/31	Fund. Thm. of Calculus
02/05	Derivative Rules	04/01	Recitation
02/06	Recitation	04/02	Area & Average Value
02/07	Exam 1	04/03	Recitation
02/10	Graphical Derivatives	04/04	Area & Average Value
02/11	Lab 3	04/07	u-Substitution
02/12	Linearization/Differentials	04/08	Lab 8
02/13	Lab 4	04/09	u-Substitution
02/14	Max/Min/Inflections	04/10	Recitation
02/17	l'Hôptal's Rule	04/11	u-Substitution
02/18	Gateway II	04/14	u-Substitution
02/19	l'Hôptal's Rule	04/15	Lab 9
02/20	Recitation	04/16	Review
02/21	Implicit Differentiation	04/17	Recitation
02/24	Related Rates	04/18	Exam 3
02/25	Lab 5	04/21	Volumes-by-Cross Section
02/26	Related Rates	04/22	Lab 10
02/27	Recitation	04/23	Volumes of Rotation
02/28	Optimization	04/24	Recitation
03/03	Optimization	04/25	Volumes of Rotation
03/04	Recitation	04/28	Review
03/05	Review	05/03	Final Exam
03/06	Recitation		