

Syllabus Quick Facts

MATH 141: Calculus I — Spring 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...

Mon.	1:00pm – 2:00pm
Tues.	4:00pm – 5:30pm
Wed.	1:00pm – 2:00pm
Thurs.	4:00pm – 5:30pm

Grading Components

Course grades are determined by the following components:

CircleIn	5%
Check-Ins	5%
Labs	10%
Gateway I & II	10%
Homework	15%
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. Seven 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.

CircleIn

Students are expected to participate in the course using CircleIn. This participation consists of two components: weekly feedback and CircleIn Study Actions. Students need to submit weekly check-ins and complete a total of at least 10 CircleIn Study Actions throughout the semester.

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. *Students must complete and meet the minimum requirement for the Gateway exams to pass the course.*

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 15% of the course grade, for a total of 45% of the course grade. There will also be a final exam worth 20% of the course grade. Together, all exams are worth 65% of the course grade. The final exam grade will be used to replace the lowest of the three exam scores—assuming the final exam score is greater than this lowest score.

Course Schedule

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

Date	Topic(s)	Date	Topic(s)
08/20	Course Introduction	10/15	Recitation
08/21	Limit Introduction (§2.1–2.4)	10/16	IVT, MVT (§2.5, 4.2)
08/22	Gateway I	10/17	Fall Break (No Class)
08/26	Limit Rules (§2.2)	10/21	Exam Review
08/27	Recitation	10/22	Exam Review
08/28	Gateway I	10/23	Exam 2
08/29	Special Limits (§2.2, 2.6)	10/24	Lab 5
09/02	Labor Day (No Class)	10/28	Integral Introduction (§5.1–5.3)
09/03	Recitation	10/29	Recitation
09/04	Review & Continuity (Ch. 2, §2.5)	10/30	Integral Introduction (§5.1–5.3)
09/05	Lab 1	10/31	Lab 6
09/09	Derivative Introduction (§3.1–3.2, 3.4)	11/04	Fund. Thm. of Calc. (§5.4)
09/10	Recitation	11/05	Election Day (No Class)
09/11	Derivative Rules (§3.3, 3.5, 3.8, 3.9)	11/06	Area between Curves (§5.6)
09/12	Lab 2	11/07	Lab 7
09/16	Derivative Rules (§3.3, 3.5, 3.8, 3.9)	11/11	u -substitution (§5.5–5.6)
09/17	Recitation	11/12	Recitation
09/18	Interpreting Derivatives (§4.1, 4.3, 4.4)	11/13	u -substitution (§5.5–5.6)
09/19	Lab 3	11/14	Lab 8
09/23	Linearization/Differentials (§3.11)	11/18	Exam Review
09/24	Exam Review	11/19	Exam Review
09/25	Exam 1	11/20	Exam 3
09/26	Lab 4	11/21	Lab 9
09/30	Implicit Differentiation (§3.7)	11/25	Thanksgiving Break (No Class)
10/01	Recitation	11/26	Thanksgiving Break (No Class)
10/02	Related Rates (§3.10)	11/27	Thanksgiving Break (No Class)
10/03	Gateway II	11/28	Thanksgiving Break (No Class)
10/07	Optimization (§4.6)	12/02	Volumes using Integration (§6.1–6.2)
10/08	Recitation	12/03	Recitation
10/09	Optimization (§4.6)	12/04	Volumes using Integration (§6.1–6.2)
10/10	Gateway II	12/05	Lab 10
10/14	l'Hôpital (§4.5)	12/9 or 12/13	Final Exam