
MATH 146-002: Honors Calculus II (Fall 2019)

Meeting time/place: MTWR 12:00 pm - 12:50 pm, 228 Gordon Palmer Hall

Prerequisite: A grade of B- or higher in MATH 125 or MATH 145; or a score of 4 or 5 on AP Calculus AB; or a score of 4 or 5 on AP Calculus BC: AB Subscore. **Fluency and efficiency in Precalculus and Calculus I is expected.**

Credit: 4 semester hours

Course description: This course covers (at least) the same material as MATH 126 but in a depth appropriate for honors students. It is the second course in the three part honors calculus sequence for students majoring in mathematics, science or engineering. Topics include L'Hospital's Rule, integration techniques (Chapter 6), applications of integration (Chapter 7), sequences and infinite series (Chapter 8), parametric equations and polar coordinates (Chapter 9), & vectors and the geometry of space (Chapter 10). **This is an honors course. Students will be expected to work harder and engage with the material in greater depth than in a regular calculus class.**

1 Instructor Information

Instructor: Mrs. Jasmine Hocutt

Email: jhhocutt@ua.edu

Office: 311B Gordon Palmer Hall

Office hours:

- Monday, 2:00 pm - 3:00 pm
- Tuesday, 2:00 pm - 3:00 pm
- Wednesday, 9:15 am - 10:15 am
- Thursday, 9:15 am - 10:15 am
- Or by appointment!

2 Course Materials

WebAssign access code (required): WebAssign is a companion website for the course textbook, where you will complete homework and where the entire textbook may be viewed online. The access code is available online through WebAssign and through the SupeStore.

Note: Students must always access WebAssign by first opening Blackboard and then clicking the Access WebAssign link.

Acadly (required): To gauge student understanding, in-class questions will be asked using acadly.com. This is a free alternative to clickers.

Textbook (optional): Essential Calculus - Early Transcendentals (2nd edition); Stewart, published by Cengage Learning. You do NOT need to purchase a hard copy of the book, but you may if you wish. You will have access to the ebook through WebAssign.

3 Course Overview

Course grades: The homework and tests will have the following weights:

WebAssign Homework	10%
Written Homework	5%
Tests	60%
Final Exam	25%

Grade scale:

A+ [98, ∞)	A [92, 98)	A- [90, 92)
B+ [88, 90)	B [82, 88)	B- [80, 82)
C+ [78, 80)	C [72, 78)	C- [70, 72)
D+ [68, 70)	D [62, 68)	D- [60, 62)
	F [0, 60)	

Note: There will be no review of disputed points at the end of the semester. **All grade concerns must be settled within one week of the return of the assignment.**

WebAssign homework: Homework assignments will be posted regularly in WebAssign. (Your 2 lowest WebAssign homework scores will be dropped.) Some homework might ask you to use a calculator, but keep in mind you will **not** be allowed to use a calculator during tests. Make sure you can compute without a calculator!

Written homework: Written homework will be assigned for each test's material. Each assignment will be graded both for completeness and correctness. These questions will be harder and more in-depth than the regular homework. Neat and organized work is expected. (Collaboration with other students in this class is permitted, but each student must turn in their own work.)

Tests: There will be four tests given during the semester. At the end of the semester, you will have the opportunity to make corrections to one of your **attempted** tests for 50% partial credit. Corrections are only offered to students who took the corresponding exam. There will be NO corrections for the final exam. The tests will be given in class, on the following dates:

Test 1	Tuesday, September 17
Test 2	Thursday, October 10
Test 3	Tuesday, October 29
Test 4	Thursday, November 21

Final exam: The final exam will be cumulative, covering all material studied during the semester. This exam will take place on **Monday, December 9, 11:30 am - 2:00 pm.**

Attendance: You are expected to attend all of your scheduled classes, and roll will be taken every class. You are solely responsible for any work missed during an absence.

Make-up policy: WebAssign and written homework cannot be made up or submitted late. If you know you are going to miss an exam for a valid reason, you must inform the instructor and bring documentation at least one week before the exam; if you unexpectedly miss an exam for a valid reason, you must inform the instructor and bring documentation within one week of the exam. **The instructor reserves the right to decide when and how makeup tests will be offered.**

Test rules:

1. **You are not allowed to use a calculator during tests or the final exam.** Use of any unapproved technological device during a test will be treated as academic misconduct.
2. Place all belongings other than your test and writing utensils on the floor. The instructor will provide scratch paper as needed.
3. Cellphones must be turned completely off and placed with all other belongings on the floor. All watches must be put away. **DO NOT** put your phone or watch in your lap or on your chair. Physically holding or concealing your cell phone, apple watch, or any other unapproved technological device during the test will be treated as academic misconduct.
4. You may not write or copy any information pertaining to the test down nor can you share any information pertaining to the test with anyone by any means: this includes word of mouth, any written correspondence, electronic device, or any type of social media. Providing information about the test to other students is grounds for academic misconduct. Also having knowledge or possession of any test information prior to the test that was not given to you by your instructor is grounds for academic misconduct.
5. You may not leave your desk during a test without permission. This includes getting water and using the restroom.
6. No talking is permitted during the test, unless asking a question of a proctor.
7. **You may not take any test if you arrive more than 15 minutes late.**

4 General Information

Disability statement: Students with disabilities must be registered with the Office of Disability Services (ODS) before receiving academic accommodations. If you have a disability, but have not registered with the ODS, please call 205-348-4285 or visit www.odsonlineportal.ua.edu to register for services. Once the ODS has approved your academic accommodations, you may use the ODS Online Portal to email the Faculty Notification Letter to your instructor. Accommodations are not provided until your instructor has received the emailed letter, and your instructor must receive the letter at least one week prior to a test to allow for accommodations on that test. **The ODS is unable to proctor every student who receives exam accommodations and scheduling occurs on a first-come, first-served basis. It is the student's responsibility to proactively schedule all exams with the ODS as soon as possible.**

Free tutoring: **Math tutoring is available at the MTLC: Monday - Thursday from 5:00 pm to 8:00 pm, and Friday from 2:00 pm to 4:30 pm.**

Student learning outcomes:

- Students will demonstrate various techniques of integration including integration by parts, trigonometric substitution, and partial fractions decomposition.
- Students will apply integration techniques to a wide range of integration problems.
- Students will determine the convergence or divergence of infinite series.
- Students will employ power series and Taylor series representations of functions.
- Students will use vectors, parametric equations, and polar coordinates within the context of the geometry of space.

5 University Policies

Code of academic conduct: All students in attendance at the University of Alabama are expected to be honorable and to observe standards of conduct appropriate to a community of scholars. The University expects from its students a higher standard of conduct than the minimum required to avoid discipline. Academic misconduct includes all acts of dishonesty in any academically related matter and any knowing or intentional help or attempt to help, or conspiracy to help, another student. **The Academic Misconduct Disciplinary Policy** will be followed in the event of academic misconduct.

Severe weather protocol: Please see the latest **Severe Weather Guidelines** in the Online Catalog.

UAct: The **UAct website** provides an overview of the University's expectations regarding respect and civility.

Pregnant student accommodations: Title IX protects against discrimination related to pregnancy or parental status. If you are pregnant and will need accommodations for this class, please review the University's FAQs on the **UAct website**.

Religious observances: Under the Guidelines for Religious Holidays Observance, students should notify the instructor in writing or via email during the first two weeks of the semester of their intention to be absent from class for religious observance. The instructor will work to provide reasonable opportunity to complete academic responsibilities as long as that does not interfere with the academic integrity of the course. See full guidelines at **Religious Holidays Observance Guidelines**.

Elasticity statement: The instructor will make every effort to follow the guidelines of this syllabus as listed; however, the instructor reserves the right to amend this document as the need arises. In such instances, the instructor will notify students in class and/or via email and will endeavor to provide reasonable time for students to adjust to any changes.