

Course Information

Course Number:	Math 1496
Course Name:	Calculus I
CRN:	18586 & 22572
Location:	Arkansas Hall 110 (Tuesday and Thursday) MCS 220 (Monday, Wednesday, Friday)
Class Hours:	8:00-9:15am (Tuesday and Thursday) 8:00-8:00am (Monday, Wednesday, Friday)
Textbook:	Required: Calculus (Early Transcendental Functions 7e) by Ron Larson and Bruce Edwards and WebAssign access. Optional/Supplemental: Calculus for Cats by Amdahl and Loats.
Prerequisites:	C or better in MATH 1390 and C or better in MATH 1392 OR C or better in MATH 1580

Instructor Information

Name:	Dr. Jeffrey Beyerl
Office Location:	MCS 231
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Phone:	501-450-5681

Course Description

As a prerequisite for nearly all upper-division mathematics, this course is a requirement for majors and minors in mathematics and other majors in the natural sciences and engineering. The content includes the study of limits, continuity, derivatives, integrals, and their applications.

Course Objectives and Requirements

The primary objective in this course is to develop the theory and computational skills for the three main topics in calculus:

- Limits
- Derivatives
- Integrals

Office Hours

My availability changes every day. Go to the website below for up to date availability. When you schedule an appointment, please specify what you're coming for.



To promote social distancing, office hours will use Google Meet by default. If you desire to come in person, you must request it when booking an appointment, properly wear a mask, maintain 6 feet of separation, and wash your hands or apply hand sanitizer shortly before arriving.

Office Hours Website: <https://ucamath.youcanbook.me/>

Grading Policy

- **Written Homework**
Written (textbook) homework problems will be given but not assigned. It is your responsibility to assure you know the material and can solve problems without assistance.
- **Online Homework**
This course will use the publisher's WebAssign homework system. If you purchased your textbook bundle through the university bookstore, it provides lifetime access to this homework system for all three of the calculus courses. The point-value assigned to online homework will be determined at the end of the semester to make all the online homework combined worth 10% of the course grade. Before recording online homework grades, your total score will be multiplied by 1.05 to account for any technological issues that may have occurred throughout the semester.
- **Video Problem Presentations**
These are problems for which you will solve and create a video depicting your solution.
- **First Activity**
Are you reading the syllabus? You're supposed to, it details what to expect from the next 14 weeks! E-mail the instructor before 8am on Monday the 24th and let him know you read the syllabus to receive credit for the first activity.
- **Borderline Grades**
Borderline grades will be determined at the instructor's discretion based on the final exam and/or the quality of your work throughout the course.
- **Activities**
Our Tuesday and Thursday meetings are lab sessions. Traditionally this has involved problem solving in groups. However, Due to the pandemic and required social distancing, our ability to work together in groups will be limited. Hence we will likely try several methods of lab activities. The central focus of lab sections is to solve calculus problems.
- **Origin of Calculus Simulation**
As part of the STEM residential college, this course will have a co-curricular activity Saturday November 7th from approximately 10am until 3pm. Please plan accordingly to be available this Saturday. If there are extenuating circumstances that prevent you from being available, contact Dr. Beyerl by the end of September to make arrangements for an alternate assignment.
- **Study Skills Project**
The focus of the project will be study skills pertaining to this mathematics course.
- **Tests**
All tests are written full-class-length non-calculator tests. Each one is cumulative. Test scores will be reported as a percentage. The point-value assigned to tests will be determined at the end of the semester to make each test worth 20% of the course grade.
- **Calculation of Grades**
Grades will be calculated using the total-points method. All the points earned throughout the semester are totaled, and divided by the total points possible. Note above that the point-value of tests and online homework will be determined as described above. Everything else will be as listed on Blackboard.



A	≥90%
B	≥80%
C	≥70%
D	≥60%
F	<60%

Student Learning Objectives

Upon completion of the course, student will be able to:

- Evaluate limits algebraically.
- Evaluate derivatives using basic rules.
- Evaluate limits, continuity, and derivatives graphically.
- Use concepts from calculus to locate extrema over a closed interval.
- Evaluate antiderivatives, integrals, and definite integrals using basic rules.
- Use definite integrals to find areas of given regions.

Important Dates

Last day to Drop Drop means the course is not on your record	August 26 th
Video Problem Presentation 1 Due	September 13 th
Video Problem Presentation 2 Due	September 20 th
Test 1	Thursday, September 24th
Video Problem Presentation 3 Due	October 4 th
Study Skills Project Due	October 11 th
Test 2	Thursday, October 22nd
Video Problem Presentation 4 Due	November 1 st
Last day to Withdraw Withdraw means the course is on your record with a "W" but does not factor into your GPA. Talk to your professor, advisor, and financial aid officer before withdrawing.	November 6 th
Origin of Calculus Simulation	November 7 th
Video Problem Presentation 5 Due	November 15 th
Test 3	Thursday, November 19th
Final Project Due	Wednesday December 9th, 10am

Outside of class resources

- The Textbook
 - Description of material
 - Example and exercise problems
 - Homework problems
- Blackboard
 - Quiz/test solutions
 - Notes from class
- Office Hours
 - Individual help
 - Availability changes every day. See <https://ucamath.youcanbook.me/>.
- The Math Resource Lab
 - Study Area
 - Tutors available throughout the day
- Previous course materials
 - <http://faculty.uca.edu/jbeyerl/courses.html>
- Academic Success Workshops (Tuesday or Thursday at X period)
 - <http://uca.edu/studentssuccess/academic-success-workshops/>
- Peer Coaching (time management skills, study skills, motivation!)
 - <http://uca.edu/studentssuccess/successcoaching/>
- Communication Skills (oral and written)
 - <http://uca.edu/cwc/>

Late Work

Last assignments and online activities may be turned in late for a 20% penalty. They will be kept by the instructor until the end of the semester; at the end of the semester if there is a chance they can affect your course letter grade, they will be graded.

Expected Study Time

A good rule of thumb is that to be successful in a college course, you should work on your own two hours for every credit hour. This course is 4 credit hours, so you should plan on studying 8 hours per week for this course. If you are well prepared you may need to study less; if you are not well prepared you may need to study more. If this is your first semester in college, please experiment with different study techniques throughout the course of the semester to figure out what works best for you. You can schedule a study technique consultation during office hours if you would like assistance developing a study plan.

Excused Absences

If you are part of an organization that includes official university trips, you will be excused from each day that you are on travel as long as you contact me each time to make arrangements for any missed work. It is your responsibility to make arrangements to make up any missed work before you leave for the trip. If you are going to miss a test or quiz, you must contact me approximately one week beforehand to make arrangements for the make-up, preferably by email.

For personal emergencies, you should contact me when it is safe and reasonable to do so, include documentation of the emergency. At his discretion, the instructor may choose to administer a make-up, issue a zero, or use the final exam to replace the missing test or quiz.

*****VERY IMPORTANT*** DO NOT COME TO CLASS IF YOU THINK YOU MIGHT BE SICK.** If you have a fever or persistent cough or other coronavirus symptoms, take the appropriate recommended action. E-mail me when you are able to, we will make accommodations for you to be able to complete anything you miss on your own or at a later date.

Attendance Policy

Your active participation in this course is expected and required for you to learn the material and earn a passing grade. If you miss more than two weeks of class meetings throughout the term, you may be administratively dropped from the course.

Academic Integrity Statement

The University of Central Arkansas affirms its commitment to academic integrity and expects all members of the university community to accept shared responsibility for maintaining academic integrity. Students in this course are subject to the provisions of the university's Academic Integrity Policy, approved by the Board of Trustees as Board Policy No. 709 on February 10, 2010, and published in the Student Handbook. Penalties for academic misconduct in this course may include a failing grade on an assignment, a failing grade in the course, or any other course-related sanction the instructor determines to be appropriate. Continued enrollment in this course affirms a student's acceptance of this university policy.

Academic integrity is taken seriously: cheating on a test will result in a failing grade in the course; allowing another student to copy off of your test will result in a one-letter-grade penalty.

Americans with Disabilities Act Statement

The University of Central Arkansas adheres to the requirements of the Americans with Disabilities Act. If you need an accommodation under this Act due to a disability, please contact the UCA Office of Disability Services, 450-3613.

Title IX disclosure:

If a student discloses an act of sexual harassment, discrimination, assault, or other sexual misconduct to a faculty member (as it relates to “student-on-student” or “employee-on-student”), the faculty member cannot maintain complete confidentiality and is required to report the act and may be required to reveal the names of the parties involved. Any allegations made by a student may or may not trigger an investigation. Each situation differs and the obligation to conduct an investigation will depend on those specific set of circumstances. The determination to conduct an investigation will be made by the Title IX Coordinator. For further information, please visit: <https://uca.edu/titleix>. *Disclosure of sexual misconduct by a third party who is not a student and/or employee is also required if the misconduct occurs when the third party is a participant in a university-sponsored program, event, or activity.

Sexual Harassment and Academic Policies Statement

All students are required to familiarize themselves with the University of Central Arkansas policy on sexual harassment and on academic policies. These policies are printed in the Student Handbook.

Building Emergency Plan Statement

An Emergency Procedures Summary (EPS) for the building in which this class is held will be discussed during the first week of this course. EPS documents for most buildings on campus are available at <http://uca.edu/mysafety/bep/>. Every student should be familiar with emergency procedures for any campus building in which he/she spends time for classes or other purposes.

Pandemic Adaptation

- All students are expected to comply with the University policy regarding face coverings. In particular, as of the start of the semester, this means that all students should wear a mask or face covering during class that covers their mouth and nose. I plan to wear a mask during class sessions as well.
- Our course is thankfully small enough that we fit in both of our classrooms even allowing for social distancing.
- DO NOT COME TO CLASS IF YOU THINK YOU MIGHT BE SICK. If you have a fever or persistent cough or other coronavirus symptoms, take the appropriate recommended action. E-mail me when you are able to, we will make accommodations for you to be able to complete anything you miss on your own or at a later date.
- MCS Building Specifics:
 - Doors for the restrooms, and department suite should be propped during business hours times to minimize contact.
 - Social distancing should be a priority at all times. Students should use first floor atrium and other designated places on the 2nd and 3rd floors to wait for classes while maintaining social distancing. Seating in the common spaces is intended for single

occupancy. Only one person at a time should be seated at any table, chair, or bench. People who live together may sit together, but should remain socially distanced from all others. No congregations allowed in the hallways.

- The schedule for cleaning and sanitation in the building has been revised to increase their frequency. Everyone should use the provided wipes to clean any space before using it. Example: Wipe down a table and chair in the lobby before sitting there to do homework.
- Once seated, students should remain in their seats for the duration of the class session. Activities or moving into groups are not allowed.
- If a student does not have a class in the building immediately after yours, ask them to leave the building.
- On each floor, those who are walking down the hall toward the restroom/elevator, use the right side of the hallway. Others walk on the left side to have an orderly flow.
- No food or drinks in classrooms.
- Everyone will use the designated entry and exit doors for the building.
- To limit disruption and physical contact, seats near the entry door of the classroom will be reserved for students who arrive late.