

Course Information

Course Number:	Math 1497
Course Name:	Calculus II
CRN:	26601
Location:	Arkansas Hall 110 (Tuesday and Thursday) MCS 212 (Monday, Wednesday, Friday)
Class Hours:	8:00am-9:15am (Tuesday and Thursday) 8am-8:50am (Monday, Wednesday, Friday)
Textbook:	Required: Calculus (Early Transcendentals 2 nd ed.) by Brings, Cochran, and Gillett
Prerequisites:	C or better in MATH 1496

Instructor Information

Name:	Dr. Jeffrey Beyerl
Office Location:	MCS 237
E-mail:	jbeyerl@uca.edu
Phone:	501-450-5652

Course Description

This course is required of all majors or minors in mathematics, chemistry, or physics. Topics include applications of the definite integral, techniques of integration, infinite series, conics, parametric equations, polar coordinates, vectors, and vector functions. This course is a prerequisite for Calculus III and most of the upper division mathematics courses.

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.

Walk-ins are also welcome: if my office door is open, I'm available. However, if somebody with an appointment comes, they will receive priority.

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

**Course Objectives and Requirements**

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

- Techniques of integration
- Infinite Series
- Applications of calculus to curves

Grading Policy

- **Make Ups**
Make-up tests/quizzes will only be given for official university events or personal emergencies. In the former case the test must be taken before official test date, in the latter case a short letter explaining why you missed the test, why this justifies a make-up, and supporting documentation must be turned in by the day you're able to return to class. In the event that a make-up is justified, it must be taken before you are able to return to class. At his discretion, the instructor may choose to administer a make-up test or use the final exam to replace the make-up.
- **Borderline Grades**
Borderline grades will be determined based on the final exam and/or the quality of your work throughout the course.
- **Oral Problem Presentations**
Oral problem presentations are in Dr. Beyerl's office. Each student will sign up for a time to meet with the instructor. There will be one problem presentation every three weeks, approximately.
- **Homework**
Homework problems will be suggested but not assigned. It is your responsibility to assure you know the material and can solve problems without assistance.
- **Activities**
Activities are given most Tuesday and Thursday meetings. Most activities will be worksheets due that day at the end of class.
- **STEM Residential College Activities**
As part of the STEM residential college, you should complete a number of activities that promote the values of the residential college. See the separate handout for details.
- **Test Average**
In order to pass the course, your test average or final exam must itself be passing ($\geq 60\%$).

Test 1	10%
Test 2	15%
Test 3	15%
Quizzes	5%
Activities	10%
Oral Problem Presentations	10%
STEM Residential College Activities	10%
Final Exam	25%

Student Learning Objectives

Upon completing this course you should be able to:

- Do integrals using: Integration by parts, trig substitution, and partial fractions.
- Do calculus involving parametric curves.
- Use polar coordinates to find areas and lengths of curves
- Determine when/if sequences and series converge.
- Compute a Taylor series for a function.
- Parameterize lines and curves in 2D and 3D

Important Dates

Last day to Drop Drop means the course is not on your record	January 16 th
Oral Problem Presentation 1	January 20-25
Oral Problem Presentation 2	February 4-8
Test 1	February 14th
Oral Problem Presentation 3	February 25-March 1
Oral Problem Presentation 4	March 11-15
Test 2	March 14th
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.	March 29 th
Oral Problem Presentation 5	April 8-12
Test 3	April 16th
Final Exam	Thursday May 2nd 8am-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
- Academic Success Workshops (every Tue at Xperiod)
 - <http://uca.edu/studentssuccess/academic-success-workshops/>
- Online Success Workshops (reading strategies, note-taking skills, test prep, etc!)
 - <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/>

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.