

Course Information

Course Number:	Math 1395
Course Name:	Linear Algebra
CRN:	28123
Location:	Fully online via Zoom: http://uca.edu/go/math1395
Class Hours:	11:00am – 11:50am MWF
Textbook:	MyMathLab access based on the textbook <i>Finite Mathematics and Calculus with Applications</i> , 10 th edition, by Lial, Greenwell, & Ritchey.
Prerequisites:	C or better in MATH 1390

Instructor Information

Name:	Dr. Jeffrey Beyerl
Office Location:	MCS 231
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Course Description

As a component of the business foundation, this course is a requirement for all majors in the College of Business. The course focuses on strengthening foundational algebra techniques by applying them to business, finance, and economics. Calculus topics include introductions to limits, derivatives, optimization, and marginal analysis in business and economics. Problem solving and calculator technology will be emphasized.

Other Requirements

- Computer with working microphone and webcam.
- The computer must be able to run Respondus Lockdown Browser on exam days.
- A UCA photo ID or government issued photo ID for exam days.
- A TI-84 or comparable calculator. The key features we'll need in addition to basic mathematics are the graphing and financial features.

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 be available either via Zoom or in person. For in person office hours you 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

- **Tests & Final Exam**
Tests will be during class time using Respondus Lockdown browser and monitor. Each test is cumulative. You will need a UCA or government photo ID as well as a webcam to take the test through Respondus. I will also attempt to reserve a classroom so that if you want to take the test paper-and-pencil you can as well. In that case wearing a mask and maintaining 6 feet of social distance will be required.
- **MyMathLab**
The MyMathLab software will be your primary homework and feedback tool. It will contain mostly homework and also some quizzes.
- **Class Participation**
Class participation includes solving (and submitting) problems given during class as well as active participation verbally and visually.
 - You may take up to 5 “Multitasking” days where you will receive full participation credit for being in class even if you do not participate verbally, visually, or submit problems. State in chat when you join the Zoom session that you’re taking a multitasking day.
 - You may have up to 3 unexcused absences without affecting your grade.
 - There is no limit to excused absences as long as you keep up with the course content.
- **Video Problem Presentations**
There will be five video presentations. You will illustrate the solution to a couple problems and provide peer review on other students’ presentations.
- **Borderline Grades**
Borderline grades will be determined based on the final exam.
- **Calculation of Grades**

Test 1	15%
Test 2	15%
Test 3	15%
MyMathLab	15%
Class Participation	10%
Video Problem Presentations	15%
Final Exam	15%

Student Learning Objectives

Upon Successful completion of this course, students will be able to

- solve linear, quadratic, rational, radical, and exponential equations;
- choose and utilize appropriate financial formulas including compounded interest and annuities;
- use fundamentals of algebra to develop and evaluate Cost, Revenue, and Profit functions and their respective marginal functions;
- evaluate the limit of a function;
- find the derivative of a function using the power rule and chain rule;
- find the intervals increasing and/or decreasing, relative minimums and/or maximums, absolute minimums and/or maximums using differentiation;
- solve application problems involving optimization by way of differentiation.

This course is part of the Critical Inquiry component of the Lower-Division Core. Critical Inquiry courses promote the ability to analyze new problems and situations to formulate informed opinions and conclusions. For more information, go to <http://uca.edu/core>.

Important Dates

Last day to Drop Drop means the course is not on your record	January 25 th
Video Problem Presentation 1 due	February 7 th
Video Problem Presentation 2 due	February 14 th
Test 1	February 19 th
Video Problem Presentation 3 due	March 7 th
Test 2	March 19 th
Video Problem Presentation 4 due	April 11 th
Last day to Withdraw Withdraw means the course is on your record with a "W" but does not factor into your GPA	April 12 th
Video Problem Presentation 5 due	April 18 th
Test 3	April 23
Final Exam	Monday, May 3 rd , 2pm-4pm.

Outside of class resources

- The Textbook
 - Description of material
 - Example problems
- Blackboard
 - Quiz/test solutions
 - Notes from class
 - Online modules
- Office Hours
 - Individual help
 - Availability changes every day. See <https://ucamath.youcanbook.me/> for up to date availability
- The Math Resource Lab
 - Study Area
 - Tutors available throughout the day
 - <https://uca.edu/math/math-resource-lab/>
- Academic Success Workshops (every Tue at X-period)
 - <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/>

Late Work

Last coursework will be accepted up until the final exam date for a 20% penalty.

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 one hour of lecture. This course has 3 credit hours, so you should plan on studying 6 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.

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 or project 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

This course will be taught fully online, synchronously.