

**COLUMBUS STATE COMMUNITY COLLEGE**  
**MATHEMATICS DEPARTMENT COURSE SYLLABUS**

**COURSE NUMBER:** MATH 268 **COURSE NAME:** Elementary Linear Algebra **QTR/YR:** \_\_\_\_\_

**PREREQUISITE:** MATH 254 with a grade of "C" or higher

**INSTRUCTOR:** \_\_\_\_\_ **OFFICE:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_ **eMail:** \_\_\_\_\_

**COURSE DESCRIPTION**

Linear systems, matrices, and determinants; vector space  $\mathbb{R}^n$  and its subspaces; Eigenvalues, Eigenvectors, and applications; orthogonal matrices; linear transformations; and complex scalars; with applications.

**GOALS AND/OR OBJECTIVES**

The introduction of matrix operations to solve systems of linear equations. The computation and applications of determinants, eigenvalues and eigenvectors. The introduction of formal mathematical structures through vector spaces, subspaces, and inner-product spaces and their representations. The applications and representations of linear transformations.

**TEXTBOOK: SPECIAL COURSE REQUIREMENTS**

Linear Algebra and its Applications, Fourth Edition, David C. Lay, Pearson Addison-Wesley, 2012.

ISBN-13: 978-0-321-38517-8 ISBN-10: 0-321-38517-9

**GENERAL INSTRUCTIONAL METHODS**

Classroom lecture, discussion and recitation supplemented by visual and computer aids as appropriate.

**STANDARDS AND METHODS OF EVALUATION**

See "Post Calculus General Guidelines"

**UNITS OF INSTRUCTION**

Chapter 1	1.1 - 1.5, 1.7 – 1.9, 1.10*	Chapter 4	4.1 - 4.7, 4.9*
Chapter 2	2.1 - 2.3	Chapter 5	5.1, 5.2, 5.5, 5.6
Chapter 3	3.1, 3.2	Chapter 6	6.1 - 6.3, 6.5, 6.6

\*Sections 1.10 and 4.9 may be covered as time permits.

**ATTENDANCE POLICY**

If you should decide to drop this course, but do not officially do so through Records & Registration, a failing grade will be recorded on your transcript. **The last day to drop this course is XX/XX/XXX.** No drops will be allowed after that date. Drop forms are available from the Counseling/Advising Center and from Records and Registration.

**STUDENT CODE OF CONDUCT**

As an enrolled student at Columbus State Community College, you have agreed to abide by the Student Code of Conduct as outlined in the Student Handbook. You should familiarize yourself with the student code. The faculty at Columbus State expects you to exhibit high standards of academic integrity. Any confirmed incidence of Academic Misconduct, including plagiarism and other forms of cheating will be treated seriously and in accordance with College Policy and Procedure. **The use of a graphing calculator to store notes and/or formulas without the instructor's permission is considered academic misconduct and is subject to disciplinary action according to college policy.**

**REASONABLE ACCOMODATION**

It is Columbus State policy to provide reasonable accommodations to students with documented disabilities. If you would like to request such accommodations because of a physical, mental, or learning disability, please contact your instructor or the Department of Disability Services, 228 Franklin Hall, 287-2570 (V/TTY).

**INSTRUCTOR'S OFFICE HOURS**

**MAKEUP POLICY**

## **ACADEMIC ASSESSMENT**

Columbus State Community College is committed to assessment (measurement) of student achievement of academic outcomes. This process addresses the issues of what you need to learn in your program of study and if you are learning what you need to learn. The assessment program at Columbus State has four specific and interrelated purposes:

1. to improve student academic achievement;
2. to improve teaching strategies;
3. to document successes and identify opportunities for program improvement;
4. to provide evidence for institutional effectiveness.

In class you are assessed and graded on your achievement of the outcomes for this course. You may also be required to participate in broader assessment activities.

## **FINANCIAL AID RECIPIENTS PLEASE NOTE**

Columbus State is required by federal law to verify the enrollment of students who participate in Federal Title IV student aid programs and/or who receive educational benefits through the Department of Veteran's Affairs. It is the responsibility of the College to identify students who do not commence attendance or who stop attendance in any course for which they are registered and paid. Non-attendance is reported quarterly by each instructor and results in a student being administratively withdrawn from the class section. Please contact the Financial Aid Office for information regarding the impact of course withdrawals on financial aid eligibility.

## **EMERGENCY CLOSINGS**

Please visit the Math Department's webpage at [csc.edu/docs/math](http://csc.edu/docs/math) and click on the link, "How to respond to emergency closings". All students are responsible for printing a copy of this statement for future reference in the event of an emergency closing of the school.