

## Course Information

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**Instructor:** *Phone number:* (502)852-5845 (x5845)  
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*Office hours:* M12-13, T10-11, W14-15, R14:30-15:30, and by appointment

### Course Websites:

[https://blackboard.louisville.edu/webapps/uofl-redirect-bb\\_bb60/course\\_redirect.jsp?course\\_id=MATH-325-01-4188](https://blackboard.louisville.edu/webapps/uofl-redirect-bb_bb60/course_redirect.jsp?course_id=MATH-325-01-4188)  
<http://aleph.math.louisville.edu/teaching/2018FA-325>

**Lecture:** TR 11:00-12:15 in Natural Sciences 110

**Prerequisites:** MATH 180, MATH 205, or equivalent course credit.

**Textbook:** *Linear Algebra with Applications*, ninth edition, by Steven J. Leon (ISBN 0-321-96221-4).

**Course Objectives:** Students who complete this course will be able to perform arithmetic and algebra with matrices, including the calculation and significance of determinants, eigenvalues, eigenspaces, and decomposition techniques, and their applications to understanding systems of equations and vector spaces.

**Responsibilities:** You are responsible for attending class on a regular basis and maintaining comprehension of the scheduled class objectives for each day. You are expected to be active participants in class, and to attend quizzes and examinations. You are expected to do and understand assignments preparatory to quizzes.

**Special needs:** Any scheduled absence during a quiz or examination, or any other special needs, *must* be brought to my attention during the first week of class. Unscheduled absences will be handled on a case-by-case basis, with exceptions generally made only for documented emergencies.

**Calculators:** Calculators are unnecessary for any in-class work. A *four-function calculator* only may be used on quizzes and exams, if desired, but should be unnecessary. Calculators will also be unnecessary for most homework problems, but may be used at your discretion. For any calculation more complicated than simple arithmetic, you are expected to show your work.

**Honesty:** There are many resources available to help you succeed in this class, including consultation during office hours, secondary textbooks, and cooperation with other students. It is important, however, that all papers handed in be the result of your individual comprehension of the course material. Duplication of others' work is both a disservice to your own education and a serious violation of the university's academic honesty policy.

**Grades:** You will keep a homework notebook and it will be assessed for completeness (but not correctness) at the end of the semester for 5% of your grade. Quizzes will be based on the homework problems, and will collectively account for 20% of your grade. The two midterm examinations will each be worth 20%, and the final examination is worth 35%. A 90% overall guarantees a grade of A-, 80% guarantees a B-, and 70% guarantees a C-. Two percentage points above each of these thresholds (92%, 82%, etc.) guarantees an unmodified grade (A, B, C, etc.).

**Title IX/Clery Act Notification:** Sexual misconduct (including sexual harassment, sexual assault, and any other nonconsensual behavior of a sexual nature) and sex discrimination violate

University policies. Students experiencing such behavior may obtain confidential support from the PEACC Program (502-852-2663), Counseling Center (502-852-6585), and Campus Health Services (502-852-6479). To report sexual misconduct or sex discrimination, contact the Dean of Students (502-852-5787) or University of Louisville Police (502-852-6111). Disclosure to University faculty or instructors of sexual misconduct, domestic violence, dating violence, or sex discrimination occurring on campus, in a University-sponsored program, or involving a campus visitor or University student or employee (whether current or former) is not confidential under Title IX. Faculty and instructors must forward such reports, including names and circumstances, to the University's Title IX officer. For more information, see the Sexual Misconduct Resource Guide (<http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure>).

**Changes:** The syllabus is subject to change. Changes will be announced in class and updated online.

## Course Schedule

This schedule is tentative and subject to change; assessment dates and due dates will not be changed, barring exceptional circumstances.

Week	Tuesday	Thursday
1	August 21st Section 1.1	August 23rd Section 1.2
2	August 28th Sections 1.3, 1.4	August 30th Sections 1.5, 1.6 <b>Quiz #1</b>
3	September 4th Section 2.1	September 6th Sections 2.2, 2.3
4	September 11th Section 3.1	September 13th Section 3.2 <b>Quiz #2</b>
5	September 18th Section 3.3	September 20th Section 3.4
6	September 25th Sections 3.5, 3.6	September 27th Section 4.1 <b>Quiz #3</b>
7	October 2nd Section 4.2	October 4th <b>Exam #1</b>
8	October 9th <b>Mid-term break</b>	October 11th Sections 5.1, 5.2
9	October 16th Section 5.3	October 18th Section 5.4 <b>Quiz #4</b>
10	October 23rd Section 5.5	October 25th Section 5.6
11	October 30th Section 6.1	November 1st Section 6.1 <b>Quiz #5</b>
12	November 6th Section 6.2	November 8th Section 6.3
13	November 13th Section 6.4	November 15th Section 6.5 <b>Quiz #6</b>
14	November 20th <b>Exam #2</b>	November 22nd <b>Thanksgiving</b>
15	November 27th Section 6.6 <b>Homework notebook due</b>	November 29th Section 6.7 <b>Quiz #7</b>
16	December 4th <b>Reading day</b>	December 6th <b>Final exam, 11:30-14:00</b>