

# Math 2753-101: Linear Algebra

## Fall 2019

Instructor: Dr. Sarah Cobb  
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Office hours:

Monday: 10 AM—12 PM

Thursday: 2—3 PM

Other times by appointment

### Schedule

Lecture: TR 9:30—10:50 AM, Bolin 109

Unit Exams: September 24, October 29, and December 3 during class time

Final Exam: Tuesday, December 10, 8:00—10:00 AM, Bolin 109

### Catalog information

Description: An applied approach to systems of linear equations and matrices, linear transformations and matrices, determinants, eigenvalues and eigenvectors. Use of technology such as MATLAB and calculators with matrix capabilities is integrated into the course.

Prerequisites: Math 1634

### Textbook

*Elementary Linear Algebra: A Matrix Approach.* Spence, Insel, Friedberg. 2nd edition.

### Computers

This course includes use of MATLAB. This software is available in computer labs in Bolin Hall, including Bolin 109. You can also download the free application Octave from <https://www.gnu.org/software/octave/download.html> for use on your own computer; Octave will function in essentially the same way as MATLAB.

Some quizzes and exams will allow the use of MATLAB on the classroom computers. No use of scientific or graphing calculators is allowed.

### Grading

Your course grade will be computed based on the following categories:

Category	Percentage
Quizzes	10%
Unit Exams	60%
Final Exam	30%

Your final letter grade will be based on the percentage obtained:

Grade	Percentage
A	At least 85%
B	75—85%
C	65—75%
D	55—65%
F	Less than 55%

Note that your grade is determined mostly by exam scores and that the percentages differ from standard grade breakdowns. You should not count on your grade being rounded up.

### Homework

Suggested homework problems will be posted on the course D2L page. It is strongly recommended that you complete the suggested problems on a regular basis.

### Quizzes

A brief quiz will be given at the beginning of most class periods. Some will allow the use of MATLAB and others will not. You must be present and on time to take the quiz. Your lowest four quiz grades will be dropped to allow for unavoidable absences. No makeup quizzes will be given. Occasional in-class or homework assignments may be counted as quiz grades.

### Tests

The three midterm exams will be September 24, October 29, and December 3 in class.

If you must miss an exam, please let me know at least one week ahead of the test date and arrange to take the test early. In the case of unexpected and unavoidable absences (such as hospitalization), you must let me know on the day of the test. In this case the exam must be made up within 48 hours and will be subject to a 10% grade penalty. In other circumstances, you will receive a zero on the exam.

The final is Tuesday, December 10, 8 AM–10 AM and cannot be taken early or late for anything but the most dire emergencies.

### Attendance

You are expected to attend every class, if at all possible. This includes arriving on time, staying to the end, participating in class, and behaving respectfully. If you must miss class, please consult a classmate to find out what you missed. Students who miss more than four classes or portions of classes may be dropped from the course with a grade of F.

### Classroom Behavior

Respectful behavior in the classroom is required. Any student who is disruptive will be asked to leave class. As much as possible, please avoid talking with classmates and leaving or entering the room during class. Make sure all electronic devices are silenced.

### Computers

Use of computers in the classroom is generally not allowed. This includes laptops, cell phones, tablets, and other similar devices. Students using such devices may be asked to leave class. Unless we are specifically discussing MATLAB, the monitor on your desk should be off. If a cell phone, smart watch, or similar device is visible or audible during an exam, you will receive a zero on that exam.

If this policy presents a serious problem, please let me know; exceptions may be made in special circumstances.

### Academic Misconduct

Cheating on any work in this course will result in no credit for that work. Egregious or repeated incidents may result in more serious consequences, including a failing grade in the course or dismissal from your academic program. All incidents of academic misconduct will be reported as specified in your student handbook.

### Changes

Some portions of this syllabus may alter during the semester. When possible, I will announce changes in class as well as sending an email through the D2L email system. You are responsible for knowing everything I announce in class as well as everything I email to your address as listed in D2L. If you miss class, make sure you talk to someone who was there.

### Office Hours

Office hours are time that I have set aside to answer questions about the course or course material. I am happy to answer questions about homework problems, quizzes and tests, study practices, grades, and other topics. Please feel free to drop by with or without an appointment at any of the scheduled times listed on the first page. If it is impossible for you to attend scheduled office hours, email me to set up an appointment at another time.

### Communicating with Me

The best way to reach me is by email (my email address is on page 1). I will generally respond to email within 24 to 48 hours. I will be in my office during office hours each week and often at other times; feel free to stop by. Any communication not in writing or by email should be considered unofficial.

### Services for Students With Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please contact the Disability Support Services office.

### Desire-to-Learn (D2L)

This course will have an active D2L page. You should look there for grades on quizzes and exams, review materials, and announcements.