

Math 3753-101: Vector Spaces

Fall 2022

Instructor: Dr. Sarah Cobb

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Office hours:

Monday: 10:00—10:50 AM

Tuesday: 1:00—2:50 PM

Wednesday: 10:00—10:50 AM

Friday: 10:00—10:50 AM

Other times by appointment, in person or over Zoom

Schedule

Lecture: MWF 9:00—9:50 AM, Bolin 309

Unit Exams: September 23, October 28, November 30 during class time

Final Exam: Monday, December 5, 8:00—10:00 AM

Catalog information

Description: A mathematically rigorous approach to Abstract Vector Spaces and Linear Transformations.

Prerequisites: Math 1634 and MATH 2753 with a grade of C or better in each

Course Materials

Textbook

Linear Algebra Done Right, 3rd edition, Sheldon Axler
(optional)

Calculators

You will not need a calculator for this course.

Coursework and Grading Grading

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

Category	Percentage
Homework, classwork, and/or quizzes	21%
Unit Exams (3)	54%
Final Exam	25%

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

Grade	Percentage
A	At least 90%
B	80—90%
C	70—80%
D	60—70%
F	Less than 60%

At the discretion of the instructor, the boundaries between grade levels may be lowered during the semester.

Homework, Classwork, and Quizzes

You will be assigned frequent homework in this class. Completing it carefully and thoughtfully will help you to master the material, do well on exams, and prepare for your future math classes. You can also expect occasional in-class work or quizzes.

Tests

The three unit exams in this class will be September 23, October 28, and November 30 during class time. Some exams may have additional take-home or online components.

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 and provide documentation.

Final Exam

The final exam will be on Monday, December 5, 8:00 AM—10:00 AM. It will be cumulative.

Course Policies

Attendance

You are expected to attend every class, in person, if at all possible. This includes arriving on time; staying to the end; being prepared; 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 six classes or portions of classes for reasons other than university-excused absences 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. Use of cell phones in class is not allowed.

Electronic Devices

Use of computers is not allowed in the classroom. This includes laptops, cell phones, tablets, and other similar devices. (Calculators are allowed.) Students using such devices may be asked to leave class. If a cell phone, smart watch, or similar device is visible or audible during an exam, you may 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

Any incident in which a student submits work for grading that does not reflect their own effort is considered academic dishonesty. This includes using sources (by paraphrase or direct quotation) without proper attribution; collaborating on work where collaboration is not authorized; use of sources on an assignment or test where those sources are not authorized; and turning in work completed by another person. Make sure you are familiar with the homework guidelines for this course.

Cheating on any work in this course will result in no credit for that work. Egregious or repeated incidents will result in more serious consequences, such as 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.

Student Handbook

Make sure you are familiar with the university policies as described in the student handbook. This course will abide by all university policies.

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.

Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program and to regularly check posted information. D2L provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into D2L through the MSU Homepage. Downloading the Brightspace Pulse app is also recommended. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

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. 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 (sarah.cobb@msutexas.edu). 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.

Some Important Links

[Student Handbook](#)

[MCOSME Student Resources Page](#)

[Grade Appeal Checklist](#)

[Academic Dishonesty Appeal Checklist](#)