

MATH 7281, Section 1 — Fall, 2019

M 4:30 - 6:30 p.m., Dunn Hall 109

Instructor: Dr. Ben McCarty

Office: DH 345

Email: bmmccrt1@memphis.edu

Office hours: 2:00 - 3:00 M or by appointment

Prerequisites: Permission of Instructor.

Goals: This course focuses on the study of Euclidean n -space, as modeled by n -dimensional vector spaces. We will discuss linear transformations and matrices, systems of linear equations, bases, etc. Throughout, we will focus on developing logically coherent arguments.

Texts: No text is required. We will work from class-notes and assignments which I will distribute. As reference material, any number of linear algebra texts may be of some benefit.

Expectations: Classes will involve some lecture, individual and group problem solving, and homework presentations. You are expected to take complete notes, to participate in class activities, and to ask questions about what you do not understand. Attendance is important, and in a small class such as this, you will be missed if you're not here. Many times we will spend time outside of class solving problems, and bring them in to present and discuss in class. It is expected that you will have the necessary tools to tackle each problem you're given. That being said, in some cases, you may not find a solution to some problems before the due-date. That's OK, provided it's the exception, not the rule. In those cases, you should still be able to describe precisely what you have tried, what went wrong, and you should have taken some steps to get help (e.g. from your classmates, from me, from the tutoring center). This way, even if you do not have a complete solution, you will arrive at class prepared to discuss the problem in a productive manner. You should always attempt the problem on your own first. If you find yourself stumped, you may be tempted to try to find a solution in a reference text, and in some cases, you may even find it. In such cases, you should disclose it, and you must still be able to explain the thinking behind the solution. As before, this should be the exception, not the rule. I want to see YOUR work, not the work of a published author.

Grading Policy: Grades will be based on your in-class presentations and participation, homework solutions presented on eCourseware, and 2 exams.

Grade Breakdown:	50 %	2 Exams
	20 %	In Class Presentations
	30 %	Homework

The grading scale (rounded to the nearest whole number) is straightforward:

90% – 100%	: A	80% – 90%	: B
70% – 80%	: C	60% – 70%	: D
0% – 59%	: F		

Other Miscellany: I will send out email emails from time to time with announcements and/or supplemental materials. Be sure that you check your Memphis email regularly (or have it forwarded to your preferred email address).

Make-up Policy: At the discretion of the professor

Written Assignments and Academic Misconduct: All written work submitted must be the student's original work. This means that any substantive ideas, phrases, sentences, and/or any published ideas must be properly referenced to avoid even the appearance of plagiarism. It is the student's responsibility to know all relevant university policies concerning plagiarism.

Student's written work may be submitted to Turnitin.com, or a similar electronic detection method, for an evaluation of the originality of ideas and proper use and attribution of sources. As part of this process, students may be required to submit electronic as well as hard copies of their written work, or be given other instructions to follow. Students taking this course agree that all assignments may undergo this review process and that the assignment may be included as a source document in Turnitin.com's restricted access database solely for the purpose of detecting plagiarism in such documents. Any assignment not submitted according to the procedures given by the instructor may be penalized or may not be accepted at all.

Any documented cases of plagiarism can and will result in dismissal from the course with a failing grade, and may result in other more serious sanctions by the College of Arts and Sciences.

Important dates:

- For holidays/university closures, see
<http://www.memphis.edu/registrar/calendars/academic/ay1819.php>