University of Memphis
Dept Math Sciences
Dwiggins
Spring 2025

Course outline for MATH 3242, Linear Algebra.

Textbook: Elementary Linear Algebra, Larson, 8th edition.

You can find copies of the textbook to order online (I am using the paperback version).
If you go to the bookstore, they will give you (for a fee) an access code for the
publisher's website, WebAssign (www.webassign.net). Once you have access
and enter the class key for our course, you will also have access to the electronic
version of the textbook.

Course Description:
We will cover the first seven chapters of the textbook, which discusses examples and
applications of linear spaces. Finite-dimensional linear spaces include vector spaces
and matrix spaces. We will also briefly look at infinite-dimensional vector spaces,
where the vectors are functions of a single variable. The weekly schedule of lectures,
exams, and homework assignments will be posted at the class website which I maintain
from home. The url for this site is http://www.dpdsdogs.com/dpd/math/3242/ .

Prerequisite: MATH 1920 (second-semester calculus). The first part of Calc III
(MATH 2110) also starts with a discussion of vector spaces, and may be taken
before or concurrently with MATH 3242.

Instructor: D. P. Dwiggins (ddwiggns@memphis.edu)
              BS, Physics, Southwestern at Memphis, 1980
              MS, Mathematics, Memphis State University, 1984
              PhD, Differential Equations, Southern Illinois Univ. 1993

Office: Dunn Hall, Room 368, 678-4174
Hours: 11:30-12:30 Mon/Weds, 9:30-11:00 Tues/Thurs

Course Evaluation:
There will be three tests, worth 100 points each, along with four homework
assignments, worth 25 points each, for a homework average of 100 points.
The lowest of these four 100-point scores may be dropped in favor of the
final exam, which covers the entire semester and is also worth 100 points.
You can improve your final semester average by completing the online
assignments posted on WebAssign, but otherwise you may consider these
assignments as optional.

Grade Calculation:

Based on the semester average, with grades assigned according to the grade scale posted online on the class website.

Make-Up Policy: Three-day make-up for a missed test.

Attendance Policy: As needed for purposes of reporting to the University.