

# MA 351, Linear Algebra

Fall 2017

## Course Information

**Professor:** David Gepner

**Email:** dgepner@purdue.edu

**Office:** Math 740

**Office Hours:** Monday 2:30–3:30, Wednesday 3:30–4:30, Friday 11:30–12:30

**Textbook:** R.C. Penney, *Linear Algebra: Ideas and Applications*, 4<sup>th</sup> Edition

## Grading Policy

There will be a total of three exams (two midterms and one final) in addition to weekly homework assignments, which will be collected at the *beginning* of class on the due date. Late homework will not be accepted. Each of the three exams, together with the combined homework score, will count 25% towards your final grade.

## Exams

The two midterm exams will be held in the evening due to time constraints: you will have  $1\frac{1}{2}$  hours to complete each exam (due to University policy, three lectures will be cancelled to compensate for the evening exam time slots). The final exam will be held during the scheduled final exam period. One entire lecture immediately preceding each exam will be devoted to reviewing the material relevant to the exam. The dates for the exams will be as follows:

**Exam 1:** Tuesday September 26<sup>th</sup> at 8pm in LWSN B151

**Exam 2:** Wednesday November 1<sup>st</sup> at 8pm in LWSN B151

**Exam 3:** Scheduled final exam period

## Homework

Homework assignments will be listed below as they become available. Your total homework score will count towards 25% of your final grade, and each homework assignment will be weighted equally. Only some of the problems assigned in the homework will actually be graded, so please turn what you've written even if it is incomplete.

**Homework 1, Due 9/1/17:** True/False Questions 1.1, 1.3, 1.5, 1.9, 1.12 1.15, 1.18 (make sure to explain why the statement is true or give a counterexample if it is false) and Exercises 1.14, 1.25, 1.30, 1.32, 1.50, 1.51, 1.55.

**Homework 2, Due 9/13/17:** True/False Questions 1.22, 1.25, 1.33, 1.36 and Exercises 1.69, 1.75, 1.77, 1.80, 1.81, 1.93, 1.96, 1.98, 1.102, 1.111, 1.115.

**Homework 3, Due 9/20/17:** True/False Questions 2.3, 2.4, 2.5, 2.12, 2.18 and Exercises 2.4, 2.8, 2.22, 2.33, 2.35, 2.38, 2.43, 2.51.

**Homework 4, Due 10/11/17:** True/False Questions 2.21, 2.23, 2.27, 3.1, 3.3, 3.6 and Exercises 2.65, 2.72, 2.73, 2.79, 2.81, 3.7, 3.13, 3.15.

**Homework 5, Due 10/18/17:** True/False Questions 3.12, 3.15, 3.20, 3.22, 3.23, 3.28, 3.29 and Exercises 3.43, 3.52, 3.63, 3.75, 3.78, 3.84, 3.87.

**Homework 6, Due 10/30/17:** True/False Questions 3.31, 3.32, 3.34, 3.38, 4.1, 4.2, 4.3 and Exercises 3.117, 3.118, 3.124, 3.129, 4.4, 4.8, 4.9.

**Homework 7, Due 11/10/17:** True/False Questions 4.8, 4.9, 4.12, 4.13, 5.1, 5.3, 5.7 and Exercises 4.12, 4.15, 4.17, 4.35, 4.38, 5.2, 5.14.