

MATH D005—Intermediate Algebra
Four Semester Hours

RS
06/15

PREREQUISITES:

University Requisites: Math placement level DV and WARNING: No credit for this course if the following is taken (keeps credit for the following course, as defined by department): MATH course above D005

COURSE OVERVIEW:

This course is a course in intermediate algebra. Algebra is useful in many practical and scientific applications and is the foundation for many higher-level mathematics courses. Although the course assumes that the student knows basic algebra, I've included more examples and more detailed explanations in the beginning lessons so that students without previous algebra courses can catch up.

METHODS OF COURSE INSTRUCTION:

All material for this course is print-based. Instructor and students communicate and exchange materials through postal mail.

E-PRINT OPTION:

In this course, an option exists to use e-mail to submit your lesson assignments. Your assignment will be returned to you either as an e-mail attachment or as a hard copy sent through the postal mail, depending on the preferences of the instructor and/or program.

TEXTBOOKS AND SUPPLIES:

Aufmann, Richard N., Lockwood, Joanne S. *Intermediate Algebra*. 8th ed. Brooks Cole, 2013. [ISBN: 9781133103738]

Calculator

A calculator is not required for this course. You may wish to use a basic calculator to check your work occasionally. Calculators or other electronic devices will **not** be allowed on exams.

NUMBER OF LESSONS:

The course has ten lessons, including one midcourse examination and one final examination. These lessons include:

- Lesson 1: Review of Real Numbers
- Lesson 2: First-Degree Equations and Inequalities
- Lesson 3: Linear Functions and Inequalities in Two Variables
- Lesson 4: Systems of Equations and Inequalities
- Lesson 5: Midcourse Examination Information

- Lesson 6: Polynomials and Exponents
- Lesson 7: Rational Expressions
- Lesson 8: Rational Exponents and Radicals
- Lesson 9: Quadratic Equations
- Lesson 10: Final Examination Information

TYPES OF WRITING ASSIGNMENTS:

At the end of each lesson there is a writing assignment that the student will physically tear out of the course guide, complete, and submit according to directions in the course guide. Each assignment contains between 12 and 24 equations and/or problems to solve/complete.

GRADING CRITERIA:

I will scale the scores of the writing assignments and exams to a 100-point scale. Writing assignment grades will constitute 40% of the final grade, the midcourse exam counts as 25% of your final grade, and the final exam counts as 35% of the final grade.