

FUNDAMENTALS OF ALGEBRA

MAT095 - Fundamentals of Algebra: This course is an introduction to algebra which includes the study of linear equations and inequalities. Other topics include the addition, subtraction, multiplication and division of polynomials, techniques of factoring, literal equations and systems of linear equations.

Prerequisite: MAT090 (grade of C or higher) or the equivalent

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Office Hours: Mon. & Wed. 11:45 a.m.-12:45 p.m., Tues & Thurs. 10:00-11:00 a.m. **OR by appointment**

Course Materials:

Textbook: Introductory Algebra by Lial, Hornsby & McGinnis, Addison Wesley Publishing, Seventh Edition, 2002

Calculator: A calculator is not required for this course.

Test Number	Testbook Sections Covered	
Ch. 1	Ch. 1, Sect. 1.1 - 1.8	The Real Number System
Ch. 2	Ch. 2, Sect. 2.1 - 2.5 & 2.7	Equations, Inequal. & Applic.
Ch. 3	Ch. 3, Sect. 3.1 - 3.5	Graphs of Lin. Eq. & Ineq.
Midyear	Midyear Exam - Chapters 1 - 3	
Ch. 7	Ch. 7, Sect. 7.1 - 7.4	Sys. of Lin. Eq. & Ineq.
Ch. 4	Ch. 4, Sect. 4.1 - 4.8	Exponents and Polynomials
Ch. 5	Ch. 5, Sect. 5.1 - 5.7	Factoring & Applications
Ch. 6	Ch. 6, Sect. 6.1 - 6.7	Rational Expressions & Applic.
Final	Final Exam - Chapters 1 - 7	

Course Objectives: The course objectives are listed at the beginning of each of the assigned textbook units. In addition, a table listing all objectives collated to material in "*Learning 2000*" is attached.

Teaching Objectives: Students will develop the ability to analyze and solve quantitative problems and to reason logically from hypothesis to conclusion. They will understand and appreciate an analytical approach to problem solving.

Teaching Procedures: A variety of instructional modes may be used in working toward the course, topic, and teaching objectives. The class will use whole class lectures and discussions as well as individual and small group work. The use of calculators and computers, and possibly videos and manipulative materials as aids to mastering the objectives will be incorporated.

Assistance: You will have the assistance of your instructor during class and during office hours and of tutors in the Tutoring and Academic Support Center (E174). In addition, your textbook and your fellow students are available learning resources. An on line tutorial will also be available, details will be made available in class.

Attendance: You are expected to attend **ALL** classes. If you are not up to date with testing, you are still required to be present for **all** classes. In case of absence/illness you are expected to call the instructor. In such situations arrangements for make-up work must be discussed individually with the instructor. If you do not call on or before class day, it is considered an unexcused absence. You are also expected to arrive **ON TIME**. You are responsible for all subject matter/information presented in class. ***If six absences of any type are accumulated, withdrawal from the course may be suggested.*** The last day for withdrawal is Nov. 12th.

Assignments: Every student should work out numerous odd number problems and check the answer in the back of the book. Also, a list of assignments will be assigned which must be handed in **prior** to taking a test. A list will be provided. The assignments will be corrected and graded. The average of the assignments will count as 20% of your final grade. For each 50 minute class meeting you should expect to study two hours outside of class. Be sure to actually READ the text and DO the problems. Before testing on a unit, do the appropriate problems at the end of the chapter to see how much you have learned. All classwork and assigned work should be in a notebook (loose leaf preferred).

Tests: You may take tests on any scheduled test date (see lecture schedule). However, all assignments must be completed to take a test. You may take a test a maximum of **two** times to achieve your highest score. The highest score will be counted toward your unit quiz average. Tests must be completed in order. Students are required to complete 3 chapter tests before taking the mandatory midyear exam, and all chapter tests and midyear before taking the mandatory final exam. The average of the 7 chapter tests will count as 50% of your semester grade. The midyear will count as 10% of your semester grade.

Final Exam: You must complete all 7 chapter tests and the midyear before taking the mandatory final exam. The midyear exam will count as 10% of your semester grade. The final exam will count as 20% of your final grade. A grade of 70% must be achieved on the final exam.

Grading: The assignments will count as 20% of your final grade. The average of the tests will count as 50% of your final grade. The midyear exam will count as 10% of your semester grade and the final exam will count as 20% of the final grade. The numerical grade will be changed to a letter grade as explained in the college catalog.

N.B.: Students who intend to enroll in a sequential math course must earn at least a C grade in MAT095.

IP Grade: If you are having difficulty with the course, speak with the instructor immediately. You may be a candidate for an In Progress grade **only if the following conditions are met.**

1. You may have no more than 2 unexcused absences or 6 absences of any type.
2. You must be making steady progress with the course material AND at least 70% of the total units must be completed.
3. During the last week of class you must sign an IP contract form stating the conditions for completion of the remaining course requirements.

Fall '03