

Youngstown State University
Department of Mathematics and Statistics
Syllabus for All Sections of Mathematics 1501

Course Title: Elementary Algebraic Models

Required Text: Beginning Algebra (4th ed) by K. Elayn Martin-Gay. The text includes the access code for My Math Lab within the Course Compass environment, as well as access to the online Prentice-Hall Tutor Center, Lecture videos, Power Points, and animations.

Course Credit: 5 s.h.

Course Prerequisite: Level 1 on the Math Placement Test

Course Description: The main concepts to be studied are arithmetic of integers and of rational numbers, linear equations and inequalities in one variable, polynomials, factoring, algebraic fractions, radicals and quadratic equations, linear systems in two variables, graphs, and introduction to functions. Grading is A, B, C, or NC. Students taking M1501 must take an additional 5 semester hours to complete the requirements for graduation.

** This course has **mandatory** scheduled and graded lab

Course Objectives:

- To prepare students for success in mathematics and other math-related course(s) required in their fields of study.
- To provide students with the level of quantitative literacy and quantitative problem solving skills expected of professionals in the modern work place.
- To experience a higher quality of life by being able to apply quantitative reasoning in appropriate life situations.

Material Covered:

Chapters	Sections	Topics
1	1– 8	Real Numbers – student reviews as needed
2	1– 4	Equations– brief in class review
2	5– 8	Problem Solving & Inequalities
3	1– 4	Graphing – brief in class review
3	5– 7	Equations of lines & Functions
4	1– 3	Solving Systems of Equations
5	1– 6	Exponents & Polynomial
6	1– 5	Factoring Polynomials
7	1– 4	Rational Expressions
8	1–5, 7	Roots & Radicals
9	3, 5	Quadratic Formula, Graphs of Quadratics

Students with Disabilities: In accordance with University procedure, if you have a documented disability and require accommodations to obtain equal access in this course, please contact the Office of Equal Opportunity and Disability Services at the beginning of the semester or when given an assignment for which an accommodation is required. Students with disabilities must verify their eligibility through the Office of Disability Services:

CSP/Disability Services

Located at Wick House

<http://www.yzu.edu/services/disabilityservices/>

Office Phone: 330-941-1372

TDD Phone: 330-941-1564

Fax Number: 330-941-7470

Office Hours: Monday - Friday

8:00 a.m. - 5:00 p.m.

Appointments scheduled as needed

Center for Student Progress: Students are encouraged register with this organization which provides the following:

- Adult Learner Services
- First-Year Student Services
- Individual Intervention Services
- Multicultural Student Services
- Student Tutorial & Supplemental Instruction

Center for Student Progress

<http://cc.yzu.edu/csp/>

Main Location - Kilcawley West (Located underneath the YSU Bookstore)

Office Phone: 330-941-3538

Fax Number: 330-941-1455

Office Hours: Monday 8:00 a.m. - 7:00 p.m.

Tuesday - Friday 8:00 a.m. - 5:00 p.m.

Semester: Fall 2007

Last Day to Withdraw with a 100% refund or reduction: Tue, Sept. 4, 2007

Last Day to Withdraw with an 85% refund or reduction: Mon, Sept. 10, 2007

Last Day to Withdraw with a 70% refund or reduction: Mon, Sept. 17, 2007

Last Day to Withdraw with a "W": Thurs, Nov. 1, 2007