

ELEMENTARY ALGEBRA (MATH 095)  
CRN 30143  
INSTRUCTOR – BARBARA MAURICE  
FALL 2009  
ROOM D206  
MW 9-10:15  
OFFICE: RM C206; OFFICE PHONE 383-5221  
OFFICE HOURS: MW 11:45-12:45; TR 1:45-2:45  
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### COURSE DESCRIPTION

This course extends the basic algebra skills acquired in MATH 078. The topics include: signed numbers, solving first-degree equations, exponents, polynomials, factoring, graphing, systems of linear equations, inequalities, radicals and scientific notation. (This course does not count towards the minimum requirements for graduation.

### PREREQUISITE

Acceptable placement score or Math 075 with a “C” grade or better.

The prerequisite for Intermediate Algebra (Math 137) is a “C” grade or better in Math 095 which translates to at least a 75 average.

### TEXTBOOK

Beginning Algebra by Martin-Gay (Fifth Edition).

### COURSE OUTCOMES

At the end of the semester students will be able to:

1. Understand variables and variable expressions
2. Understand equivalence
3. Perform algebraic operations on expressions
4. Understand linear functions
5. Solve work problems using linear equations

### TENTATIVE SCHEDULE

|   |      |  |         |
|---|------|--|---------|
| W | 8/26 | Review of basics   | 1.3-1.4 |
| M | 8/31 | Review of basics   | 1.5-1.8 |
| W | 9/2  | Algebraic expressions, add./mult. properties of equality | 2.1-2.3 |
| M | 9/7  | Labor Day – College closed                               |         |
| W | 9/9  | Solving linear equations, problem solving                | 2.4-2.5 |
| M | 9/14 | Problem solving, formulas, inequalities                  | 2.6-2.9 |

|   |       |   |           |
|---|-------|---|-----------|
| W | 9/16  | Review  |           |
| M | 9/21  | TEST #1 (CH. 1-2)   |           |
| W | 9/23  | Coordinate system, graphing, intercepts                   | 3.1-3.3   |
| M | 9/28  | Slope, equations of lines                                 | 3.4-3.5   |
| W | 9/30  | Equations continued                                       | 3.5       |
| M | 10/5  | Systems of equations                                      | 4.1-4.2   |
| W | 10/7  | Systems of equations, problem solving                     | 4.3-4.4   |
| M | 10/12 | Review  |           |
| W | 10/15 | TEST #2 (CH. 3-4)   |           |
| M | 10/19 | Exponents   | 5.1       |
| W | 10/21 | Add./subt./mult. of polynomials                           | 5.2-5.3   |
| M | 10/26 | Special products, negative exponents, scientific notation | 5.4-5.5   |
| W | 10/28 | Division of polynomials, radicals                         | 5.6 & 8.1 |
| M | 11/2  | Review  |           |
| W | 11/4  | TEST # 3 (CH. 5)  |           |
| M | 11/9  | GCF, factoring by grouping                                | 6.1       |
| W | 11/11 | Veteran's Day – classes not in session                    |           |
| M | 11/16 | Factoring $x^2 + bx + c$ , $ax^2 + bx + c$                | 6.2-6.4   |
| W | 11/18 | Factoring binomials                                       | 6.5       |
| M | 11/23 | Factoring strategy, quadratic equations, problem solving  | 6.6-6.7   |
| W | 11/24 | Instructor discretion                                     |           |
| M | 11/30 | Review  |           |
| W | 12/2  | TEST # 4 (CH.6)   |           |
| M | 12/7  | Review  |           |

W 12/9 FINAL EXAM

M 12/14 Make – up

W 12/16 To be used as needed

12/29 Grades available on web ([www.online.comnet.edu](http://www.online.comnet.edu))

### Attendance/Homework/Requirements

It is strongly suggested that students make every effort to attend ALL classes. Homework will be assigned on a daily basis. All homework assignments must be completed. Students will be required to have a two-section math notebook. One section is to be dedicated to class notes while the other section will be dedicated to homework. The student's math notebook should be available to the instructor at each class. Students are allowed to use a calculator.

**CELL PHONES MUST BE TURNED OFF DURING CLASS.**

### Methods of Evaluation/Make-ups

Tests will be announced. Unannounced quizzes may be given at the discretion of the instructor. Tests that are missed for any reason cannot be made up (with the exception of snow conditions). If a student misses one of the first THREE tests, a make-up test will be given at the end of the semester. A student can also use this make-up test to replace their lowest test grade. Final grades will be assigned according to the following:

IN ORDER TO MOVE ON TO MATH 137 STUDENTS MUST EARN A C (75 AVERAGE)

| <u>CLASS AVERAGE</u> | <u>FINAL GRADE</u> |
|----------------------|--------------------|
| 90 -100              | A- / A             |
| 80 - 89              | B- / B+            |
| 70 - 79              | C- / C+            |
| 60 - 69              | D- / D+            |
| Below 60             | F                  |

### College Withdrawal Policy

Students may withdraw, in writing at the Registrar's Office, for any reason until the end of the 10<sup>th</sup> week of classes. From the 11<sup>th</sup> week through the end of the 13<sup>th</sup> week, a student may withdraw with the signature of the instructor or advisor.

### Statement on Disabilities

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact the Disabilities Counseling Service at 383-5240. To avoid any delay in the receipt of accommodations, you should contact the counselor as soon as possible. Please note that I cannot provide accommodations based upon disability until I have received an accommodation letter from the Disabilities Counselor. Your cooperation is appreciated.

## TENTATIVE HOMEWORK ASSIGNMENTS

(eoo – every other odd)

- 1.3 1-83 odd
- 1.4 1-89 odd
- 1.5 1-29 odd, 35-53 odd, 65-79 odd
- 1.6 1-67 odd, 79-87 odd
- 1.7 1-111 odd
- 1.8 1-89 odd

Chapter 1 Review/ Test: As needed

- 2.1 1-81 odd
- 2.2 1,3,5,13 17-69 odd
- 2.3 1-79 odd
- 2.4 1-53 odd; pg. 105: 1-35 odd
- 2.5 1-37 odd
- 2.6 15-29 all, 31,45,46,49,55
- 2.7 23-26 all, 45,46,53
- 2.8 1-4 all,15,17,19,41,43
- 2.9 11-48 odd

Chapter 2 Review/Test: As needed

- 3.1 17-31 odd, 39-59 odd
- 3.2 1-41 odd
- 3.3 1-53 odd
- 3.4 1-57 odd
- 3.5 1-35 odd, 39-67 eoo, 69,71,75,77

Chapter 3 Review/Test: As needed

- 4.1 1-7 odd, 9-19 odd, 39-51 odd
- 4.2 1-37 odd
- 4.3 1-37 odd, 51,53
- 4.4 11, 13,17,19, 25, 27, 29,31,32, 33,35, 38

Chapter 4 Review/Test: As needed

- 5.1 1-103 odd
- 5.2 35-44 odd,55-69 odd
- 5.3 1-49 odd
- 5.4 1-77 odd
- 5.5 1-75 odd
- 5.6 1-27 odd, 28

Chapter 5 Review Test: As needed

- 8.1 1-63 odd

- 6.1 1-71 odd
- 6.2 1-59 odd
- 6.3 39-50 all
- 6.4 1-8 odd, 13-49
- 6.5 1-49 odd

Pages 400-401 odd

- 6.6 19-75 odd

Chapter 6 Review/Test: As needed