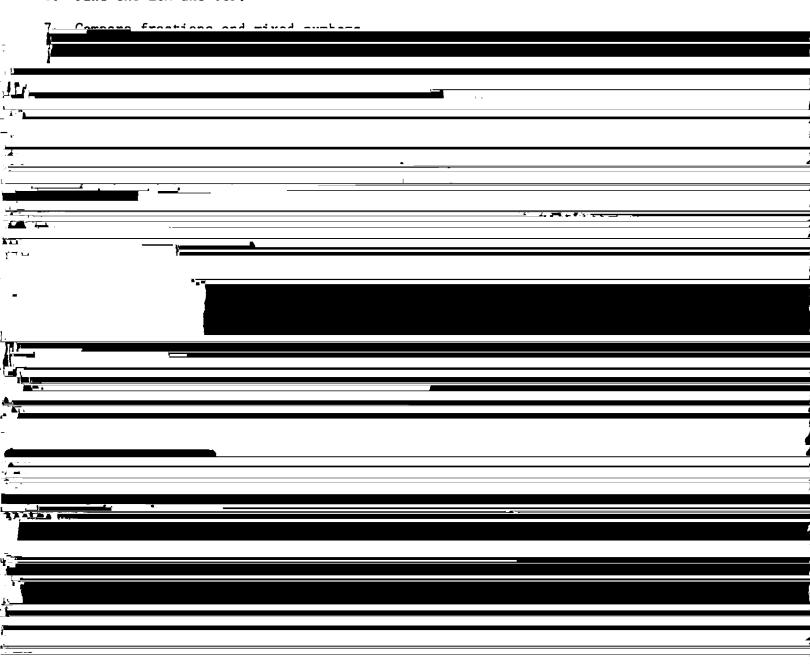
# LC 090 Introduction to College Math I (3c-Ol-3sh)

DESCRIPTION	
Notes: 1. A student	t may not register for this course after successfully completing any
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2. This cour	rse carries institutional, non-graduating credit.
numbers decimals and	ational skills and their applications. Includes operations with who
geometric principles:	d fractions; the concepts of ratios, proportions and percents; basic; and an introduction to algebra.
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- 5. Simplify fractions.
- 6. Find the LCM and GCr.



- 10. Rename decimals as fractions.
- 11. Rename numbers as percents.
- 12. Rename percents as numbers.
- 13. Understand and apply the concept of percent.
- 14. Understand and apply the concept of proportion.

# COURSE OUTLINE

# Whole Numbers and Decimals

Week 1 Addition and Subtraction

Week 2 Multiplication

Week 3 Division

Week 4 Order, Exponents, and Order of Operations Agreement

# Fractions and Mixed Numbers

Week 5 Least Common Multiple and Greatest Common Factor

Week 6 Addition and Subtraction Week 7 Multiplication and Division

# Percents and Proportion

#### Wook 8

Week 9 Proportion

Week 10 Percents and Interest

#### Measurement and Geometry

Week 11 Statistics and Graph Reading

Week 12 Measurement

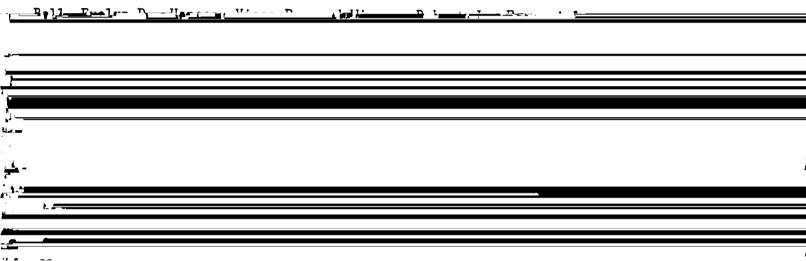
Angles, Lines, and Geometric Figures

# Introduction to Algebra

Introduction to Signed Numbers Week 13

#### REFERENCES

- Aufmann, Richard N., and Barker, Vernon C. <u>Basic College Mathematics:</u>
  <u>An Applied Approach.</u> Boston, MA: Houghton Mifflin Company, 1987.
- Aufmann, Richard N., and Barker, Vernon C. <u>Essential Mathematics</u> with Applications. Boston, MA: Houghton Mifflin Company, 1987.
- Barker, Jack, Rogers, James, and Van Dyke, James. <u>Arithmetic.</u> Philadelphia, PA: Saunders College Publishing, 1987.



- Skills for Arithmetic. New York: McGraw-Hill, Inc., 1980.
- Goozner, Calman. <u>Computational Skills for College Students</u>. New York: Amsco College Publications, 1976.
- Gossage, Loyce C. <u>Mathematics Skill Builder</u>. Cincinnati, OH: South-Western Publishing Company, 1977.
- Hackworth, Robert D., and Howland, Joseph W. Programmed Arithmetic.

  Clearwater, Fla: H and H Publishing Company, Inc., 1983.
- Johnston, C.L., Willis, A.T., and Hughes, G.M. <u>Essential</u> <u>Arithmetic.</u> Belmont, CA: Wadsworth Publishing Company, 1984.
- Mandery, Matthew, and Schneider, Marvin. <u>Achieving Competence</u> in <u>Mathematics</u>. New York: Amsco School Publications, Inc., 1987.

# LC 095 Introduction to College Math II (3c-01-3sh)

## DESCRIPTION

- Notes: 1. A student may not register for this course after successfully completing any course offered by the Mathematics Department, without the written approval of the Learning Center Director;
  - 2. This course carries institutional, non-graduating credit.

Introduces beginning algebraic concepts, with emphasis on signed numbers, rules and properties of equations; exponents; polynomials; factoring; and rational expressions.

## TEXT

<u>Introductory Algebra</u>, Aufmann/Barker; <u>Beginning Algebra and Problem Solving</u>, Wise; or a comparable workbook text.

	PURPOSE OF COURSE
	The nurnose of this course is to prepare the student for entry into college level math
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COURSE OBJE	ECTIVES
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Unon completion of this course, the students should be able to:

1. Add, substract, multiply, and divide positive and negative numbers

#### properties

Understand and recognize the use of the addition and multiplication apparate of

## equality

- 4. Know the major classifications of numbers
- 5. Solve linear equations in one variable Solve linear inequalities in one variable
- 6. Solve linear equations in two variables

Solve linear inequalities in two variables

7 Solve systems of linear equations (optional)

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Page 3
COURSE OUTLINE
Week 1
Week 2
Week 3 & 4
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Week 9 Algebraic Fractions

Line and Lin

Real Numbers

Variable Expressions

Solving Equations

Week 12 Systems of Linear Equations (optional)

Week 13 Inequalities

Week 14 Radical Expressions

# REFERENCES

- Aufmann, Richard N., and Barker, Vernon C. <u>Beginning Algebra with</u>
  Applications. Boston, MA: Houghton Mifflin Company, 1986.
- Aufmann, Richard N., and Barker, Vernon C. <u>Introductory Algebra: An Applied Approach.</u> Boston, MA: Houghton Mifflin Company, 1986.
- Barker, Jack, Rogers, James, and Van Dyke, James. <u>Basic Algebra</u>. Philadelphia, PA: Saunders College Publishing, 1987.
- Bramson, Morris. Algebra: An Introductory Course. New York: Amsco School Publishing, Inc., 1987.
- Dressler, Robert E., and Dressler, Isidore. <u>Introductory Algebra for College Students</u>. New York: Amsco School Publications, 1976.