



September 2008

## **MATH 114 Intermediate Algebra Laboratory**

### 1. Catalog Description

#### **MATH 114 Intermediate Algebra Laboratory (1) (CR/NC)**

Facilitated study and discussion of the theory, problems, and applications of intermediate algebra. Not for baccalaureate credit. Credit/No Credit grading only. 1 laboratory.  
Corequisite: Concurrent enrollment in the associated section of MATH 104.

### 2. Required Background or Experience

The ability to perform routine algebraic operations with accuracy and confidence and an appropriate score on the ELM examination, or credit in Math 100.

### 3. Learning Objectives

The student should:

- a. Develop a deeper understanding of intermediate algebra.
- b. Learn to communicate and interact with peers on a mathematical level.
- c. Develop a sense of community with fellow classmates.

### 4. Text and References

For students:

Assessment and Learning in Knowledge Spaces (ALEKS) Online Program  
ALEKS Online Support and Student User Guide

Online text materials may include:

ALEKS: *Intermediate Algebra*, 1st edition, McGraw-Hill.

Bello, *Intermediate Algebra*, 2nd edition, McGraw-Hill.

Dugopolski, Mark, *Intermediate Algebra*, 4th edition, McGraw-Hill.

Hall/Mercer, *Intermediate Algebra*, 1st edition, McGraw-Hill.

Streeter, *Intermediate Algebra*, 4th edition, McGraw-Hill.

For instructors:

Baker, Harold, ALEKS Instructor Guide, ALEKS Corporation, 2003.

Baker, Harold, Teaching with ALEKS Manual, ALEKS Corporation, 2003.

Hutchison, Donald, et al., ALEKS Worktext for Beginning and Intermediate Algebra, McGraw-Hill, 2001.

5. Minimum Student Materials

Paper, pencils and notebook.

6. Minimum University Facilities

Classroom with ample chalkboard space for class use.

7. Content and Method

Content

Real numbers and linear equations  
Graphs and functions  
Systems of linear equations  
Exponents and polynomials  
Rational expressions and functions  
Radicals and quadratic equations

Method

Supervised work both individually and in small groups, facilitated discussions, oral presentations, practice examinations.

8. Methods of Assessment

Credit will be awarded on the basis of attendance, participation, and a grade of CR in Math 104.