

MATH 100 Beginning Algebra Review

1. Catalog Description

MATH 100 Beginning Algebra Review (3) (CR/NC)

Review of basic algebra skills at the beginning algebra level intended primarily to prepare students for MATH 104. Course open only to students who have taken the ELM examination and are not qualified for MATH 104. Not for baccalaureate credit. Credit/No Credit grading only. 3 lectures.

2. Required Background or Experience

An ELM examination score < 41 , the ability to perform routine arithmetical operations with accuracy and confidence, and a need for help at the beginning algebra level.

3. Learning Objectives

The student should be able to understand and use the skills of beginning algebra.

4. Text and References

For students:

Assessment and Learning in Knowledge Spaces (ALEKS) Online Program

ALEKS Online Support

Online text materials may include:

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

Dugopolski, Mark, *Elementary Algebra*, 6th edition, McGraw-Hill.

Hall/Mercer, *Beginning and Intermediate Algebra*, 2nd edition, McGraw-Hill.

Miller/O'Neill/Hyde, *Beginning Algebra*, 2nd edition, McGraw-Hill.

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

For instructors:

ALEKS Online Training Center: http://www.aleks.com/highered/math/training_center

ALEKS Instructor User Guides: http://www.aleks.com/highered/math/user_guides

5. Minimum Student Materials

Paper, pencils, and notebook.

6. Minimum University Facilities

Computer laboratory.

7. Content and Method

<u>Content</u>	<u>Topics</u>
Arithmetic readiness	68
Real numbers and variables	35
Linear equations and inequalities	38
Functions, lines, and systems of equations	27
Integer exponents and polynomials	22

Rational expressions and proportions

5

Total

195

Method

ALEKS (Assessment and Learning in Knowledge Spaces), an internet-based software program, guides student learning in this course. ALEKS diagnostic assessments determine which concepts within the course topics a student needs to master. Students receive explanations of the concepts and work practice problems with feedback to facilitate learning. Online homework assignments, online exams, and additional ALEKS assessments are administered to measure understanding and mastery. Classes may incorporate some lecture and class discussion but most work is independent. Students are encouraged to seek tutorial assistance.

8. Methods of Assessment

Students will be assessed via homework, ALEKS diagnostic assessments, timely completion of intermediate course objectives, and scheduled in-class exams. Students must achieve at least 80% on their final ALEKS assessment **and** 70% in the course to receive a credit in Math 100.