MATH 95 Coreq with MATH 115: Pre-Calculus Algebra I (Stretch)

1. Catalog Description

    MATH 95 Coreq with MATH 115: Pre-Calculus Algebra I (Stretch) (1) (CR/NC)

    Review of basic algebra skills intended primarily to prepare students for pre-calculus work in MATH 115. 1 unit not for baccalaureate credit. Credit/No Credit grading only. 1 activity. Prerequisite: Appropriate placement score and enrollment in MATH 115

2. Required Background or Experience

    The ability to perform routine arithmetical operations with accuracy and confidence, and an appropriate placement score.

3. Learning Objectives

    The student should be able to understand and use the skills of algebra. Students receiving credit in Math 95 will have the prerequisite knowledge and skills for college-level courses in math, statistics, and other courses requiring the use of algebra.

4. Text and References

    For students:
    Assessment and Learning in Knowledge Spaces (ALEKS) Online Program
    ALEKS Online Support

    Online text materials may include:
        Binttenger, Intermediate Algebra, 10th edition, Pearson Addison Wesley.
        Dugopolski, Mark, Elementary Algebra, 6th edition, McGraw-Hill.
        Dugopolski, Mark, Intermediate Algebra, 6th edition, McGraw-Hill.
        Streeter, Intermediate Algebra, 5th 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

Content

Arithmetic review

Real numbers and linear equations

Linear equations and inequalities

Exponents and polynomials

Rational expressions

Radicals

Method

This corequisite course will provide necessary fundamental algebra skills for students to be successful in MATH 115. Material will be delivered 'just in time' based on the topics being covered in MATH 115. 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 and additional ALEKS assessments are administered to measure understanding and mastery. Classes 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 knowledge checks, and timely completion of intermediate course objectives. Students must achieve at least 80% on their final ALEKS knowledge check **and** 70% in the course to receive a credit in Math 95.