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:
   

   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.

2019/20
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.