Eastern WV Community & Technical College
Master Course Record

Course Prefix and Number: MTH 102S
Course Title: Math for Elementary Teachers Support
Recommended Transcript Title (if over 40 characters)
Date Approved/Revised: 10/5/17

Credit Hours: 3
 Contact hours per week (Based on 15 week term):
     Lecture: 3
     Lab:

Prerequisite: This course is required for students with math ACT score less than 19; SAT math score less than 500; or ACCUPLACER Arithmetic score of less than 85.   **Corequisite:** MTH 102   **Pre/Corequisite:**
Grading Mode: A, B, C, and NC
Catalog Description: This course will provide targeted support to help students enhance their understanding and learning of MTH 102 material.
Course Outcomes: 1. Perform operations with whole numbers   2. Perform operations with fractions and mixed numbers   3. Perform operations with decimal numbers   4. Solve problems involving percents   5. Perform operations with real numbers   6. Solve linear equations   7. Translate and evaluate expressions   8. Read and interpret tables and graphs   9. Utilize the features of a scientific calculator and apply to course material when appropriate
Implementation Cycle: Fall

Role in College Curriculum: (Check all that apply)
   General Education Core (Specify category)
   Technical Core (Specify Program)
   Restricted Elective (Specify Program)
   General Elective
   Workforce Education
 X Other (Please specify) Co-requisite Support

Course Fee: None
Instructor's Qualifications: Bachelor's Degree in math or related field with relevant teaching experience.
Expanded Course Description: This course will feature instructor-led classes emphasizing student participation plus a lab with computer-assisted tutorials. Topics will focus specifically on the skills students need to be successful in MTH 102. As time allows, the instructor may also

review material from MTH 102. This course does not satisfy the requirements for a college-level math course.

Expanded course outcomes:
1. Perform operations with whole numbers
   a. Express a whole number in expanded form
   b. Divide whole numbers, expressing the quotient as a whole number and remainder
   c. List the factors of a whole number
   d. Find the prime factorization of a whole number
   e. Round whole numbers to a specific place value
2. Perform operations with fractions and mixed numbers
   a. Simplify fractions
   b. Add, subtract, multiply, and divide fractions
3. Perform operations with decimal numbers
   a. Add, subtract, multiply, and divide decimals
   b. Round decimal numbers to a specific place value
4. Solve problems involving percents
   a. Convert decimals to percents
   b. Convert percents to decimals
   c. Solve problems involving percents
5. Perform operations with real numbers
   a. Add, subtract, multiply, and divide integers
   b. Identify perfect squares
   c. Simplify radical expressions
   d. Identify properties of the real numbers
   e. Approximate a square root using a calculator
6. Solve linear equations
7. Translate and evaluate expressions
   a. Translate phrases into mathematical expressions
   b. Evaluate expressions containing exponents
   c. Evaluate expressions following the order of operations
   d. Evaluate expressions containing variables
8. Read and interpret tables and graphs
   a. Read tables
   b. Read and interpret bar, line, and circle graphs
9. Utilize the features of a scientific calculator and apply to course material when appropriate

Prepared by: Andrea Williams, Mathematics Faculty   10/5/17

Name, Title   Date

Approved Per LOT Minutes

Dean of Teaching and Learning   Date

Course Number & Title: MTH 102S – Math for Elementary Teachers Support
Date Prepared/Revised: 10/5/17
Date Approved by Curriculum Committee: 10/5/17
Date Course Approved by LOT: 10/16/17