

**Eastern WV Community & Technical College  
Master Course Record**

<b>Course Prefix and Number:</b> MTH 121S
<b>Course Title:</b> College Math Support
<b>Recommended Transcript Title:</b> (if over 40 characters)
<b>Date Approved/Revised:</b> 10/5/17
<b>Credit Hours:</b> 3 <b>Contact hours per week (Based on 15 week term):</b> <b>Lecture:</b> 3 <b>Lab:</b>
<b>Prerequisite:</b> 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. <b>Corequisite:</b> MTH 121 <b>Pre/Corequisite:</b>
<b>Grading Mode:</b> A, B, C, and NC
<b>Catalog Description:</b> This course will provide targeted support to help students enhance their understanding and learning of MTH 121 material.
<b>Course Outcomes:</b> <ol style="list-style-type: none"> <li>1. Perform operations with whole numbers</li> <li>2. Perform operations with fractions</li> <li>3. Perform operations with decimal numbers</li> <li>4. Solve problems involving proportions and percents</li> <li>5. Perform operations with real numbers</li> <li>6. Solve linear equations</li> <li>7. Translate, evaluate, and simplify expressions</li> <li>8. Read and interpret tables and graphs</li> <li>9. Utilize the features of a scientific calculator and apply to course material when appropriate</li> </ol>
<b>Implementation Cycle:</b> Fall and Spring
<b>Role in College Curriculum: (Check all that apply)</b> <input type="checkbox"/> <b>General Education Core (Specify category)</b> <input type="checkbox"/> <b>Technical Core (Specify Program)</b> <input type="checkbox"/> <b>Restricted Elective (Specify Program)</b> <input type="checkbox"/> <b>General Elective</b> <input type="checkbox"/> <b>Workforce Education</b> <input checked="" type="checkbox"/> <b>Other (Please specify) Co-requisite Support</b>
<b>Course Fee:</b> None
<b>Instructor's Qualifications:</b> Bachelor's degree in math or related field with relevant teaching experience.
<b>Expanded Course Description</b> 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 121. As time allows, the instructor may also

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review material from MTH 121. This course does not satisfy the requirements for a college-level math course.

Expanded course outcomes:

1. Perform operations with whole numbers
  - a. Round whole numbers to a specific place value
  - b. List the factors of a whole number
  - c. Identify perfect squares
  - d. Evaluate the square root of a perfect square
2. Perform operations with fractions
  - a. Simplify fractions
  - b. Add, subtract, multiply, and divide fractions
3. Perform operations with decimal numbers
  - a. Round decimal numbers to a specific place value
  - b. Multiply and divide by powers of 10
4. Solve problems involving proportions and percents
  - a. Convert between decimals and percents
  - b. Solve problems involving percents
  - c. Solve for an unknown number in a proportion
5. Perform operations with real numbers
  - a. Add, subtract, multiply, and divide integers
  - b. Simplify square roots using the product rule
  - c. Approximate a square root using a calculator
6. Solve linear equations
7. Translate, evaluate, and simplify expressions
  - a. Translate phrases into mathematical expressions
  - b. Evaluate expressions containing exponents
  - c. Evaluate expressions using the order of operations
  - d. Evaluate expressions containing variables
  - e. Identify and combine like terms
  - f. Use the distributive property
  - g. Multiply two monomials using the product rule for exponents
  - h. Multiply two binomials (FOIL)
  - i. Find the greatest common factor of a list of terms
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

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Name, Title

Date

Approved Per LOT Minutes

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Dean of Teaching and Learning

Date

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Form revised 8-15-11

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