

# Mathematics Placement Testing at Essex County College

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## 0.1 Testing Schedule

Please visit <http://ecc-math-placement.blogspot.com/> for an updated testing schedule. We usually test in early September and January.

## 0.2 General Instructions

You will need to decide what placement test to take. If you are unsure, you can start on a lower level and work your way forward. You will not be given more than sixty minutes for any given exam, and you can only take each exam once.<sup>1</sup> Scrap paper and a pencil will be provided, but you cannot use any other aides<sup>2</sup> during the testing period.

If your placement results from the ACCUPLACER placement test placed you into MTH-100 or below, you will be charged a ten dollar placement fee. If the ACCUPLACER placement test placed you above MTH-100, you will not be charged a fee.

## 0.3 Placement Testing

### 0.3.1 Place Into MTH-121 (Form CR)

- Time limit is 60 minutes.
- Types of Questions (25 Total, order varies):
  1. Word problems; numerical awareness
  2. Systems of linear equations; graphs
  3. Geometry; word problems
  4. Quadratic inequalities; graphs
  5. Logarithms; linear equations
  6. Graphs; quadratics
  7. Exponents; arithmetic of rational numbers
  8. Concept formation; graphs
  9. Numerical awareness; concept formation
  10. Distance; geometry
  11. Exponential functions; graphing
  12. Fractional equations
  13. Graphs; linear equations

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<sup>1</sup>Special permission is required to take any exam more than once.

<sup>2</sup>Cellular phones, calculators, notes, *etc.*

14. Factoring; operations with algebraic expressions
15. Geometry; functions
16. Functions; notation
17. Word problems; geometry
18. Word problems; concept formation
19. Word problems; geometry
20. Inequalities; absolute value
21. Special angles; trigonometric functions
22. Trigonometric identities
23. Special angles; trigonometric functions
24. Trigonometric identities
25. Trigonometric graphs

### **0.3.2 Place Into MTH-121 (Form TEF)**

- Time limit is 60 minutes.
- Types of Questions (30 Total, order varies):
  1. Special angles; radian measure
  2. Special angles
  3. Radian measure
  4. Right triangles; definition of trigonometric functions
  5. Special angles; radian measure
  6. Operations on functions
  7. Trigonometric identities
  8. Right triangles; definition of trigonometric functions
  9. Trigonometric equations; special angles; radian measure
  10. Trigonometric identities
  11. Trigonometric graphing
  12. Trigonometric equations; special angles
  13. Trigonometric identities
  14. Non-right triangles; laws of sines and cosines
  15. Inverse trigonometric functions; special angles; radian measure
  16. Graphing; linear equations

17. Graphing; exponentials
18. Distance; right triangles
19. Lines; graphs
20. Functions; notation
21. Graphs; conics
22. Absolute value; graphing
23. Exponential functions
24. Functions; fractional equations
25. Logarithms; functions
26. Functions; composition
27. Functions; inequalities
28. Higher degree polynomial equations
29. Graphs; logarithms
30. Non-linear systems of equations; graphs

### **0.3.3 Place Into MTH-120 (Form AA)**

- Time limit is 60 minutes.
- Types of Questions (25 Total, order varies):
  1. Linear equations
  2. Arithmetic of rational numbers; substitution
  3. Radicals
  4. Operations with algebraic expressions; algebraic fractions
  5. Logarithms
  6. Factoring; operations with algebraic expressions
  7. Exponents
  8. Linear equations; functions
  9. Linear equations; operations with algebraic expressions
  10. Logarithms
  11. Radicals
  12. Absolute value; operations with algebraic expressions
  13. Algebraic fractions; factoring
  14. Linear equations; graphing

15. Quadratic equations; complex numbers
16. Graphing
17. Logarithms
18. Radicals
19. Factoring
20. Quadratic inequalities
21. Graphing systems of equations
22. Algebraic identity; quadratic expressions
23. Radicals; quadratic equations
24. Functions; composition
25. Graphing; linear inequalities