

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.¹ Scrap paper and a pencil will be provided, but you cannot use any other aides² 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

¹Special permission is required to take any exam more than once.

²Cellular 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

0.3.4 Place Into MTH-119 (Form A)

- Time limit is 60 minutes.
- Types of Questions (32 Total, order varies):
 1. Arithmetic of rational numbers; order of operations
 2. Linear equations
 3. Operations with algebraic expressions; factoring
 4. Radicals
 5. Linear equations; graphing
 6. Exponents; operations with algebraic expressions
 7. Operations with algebraic expressions
 8. Arithmetic of rational numbers; algebraic fractions
 9. Operations with algebraic expressions; algebraic fractions
 10. Graphing; linear equations
 11. Linear equations; substitution
 12. Exponents; arithmetic of rational numbers
 13. Radicals
 14. Linear equations; absolute value
 15. Fractional equations; linear equations
 16. Algebraic fractions; operations with algebraic expressions
 17. Algebraic fractions; operations with algebraic expressions

18. Exponents; operations with algebraic expressions
19. Quadratic equations
20. Linear Inequalities
21. Logarithms
22. Systems of linear equations
23. Linear inequalities; absolute value
24. Factoring
25. Exponents
26. Quadratic equations; complex numbers
27. Operations with algebraic expressions; algebraic fractions
28. Functions; notation
29. Quadratic inequalities
30. Graphs; systems of equations
31. Functions; notation
32. Logarithms

0.3.5 Place Into MTH-100 (Form BA)

- Time limit is 60 minutes.
- Types of Questions (25 Total, order varies):
 1. Arithmetic of rational numbers; order of operations
 2. Operations with algebraic expressions
 3. Algebraic fractions; operations with algebraic expressions
 4. Linear equations
 5. Algebraic fractions
 6. Word problems; linear equations
 7. Square of a binomial
 8. Radicals
 9. Operations with algebraic expressions; exponents
 10. Algebraic expressions; substitution; rational numbers
 11. Radicals; addition
 12. Linear inequalities; graphing
 13. Linear equations

14. Fractional equations; linear equations
15. Linear equations
16. Systems of linear equations
17. Operations with algebraic expressions
18. Word problems; ratio and proportion
19. Polynomials; addition
20. Word problems; area
21. Quadratic equations
22. Word problems; coins
23. Radicals
24. Factoring
25. Graphing; linear equations

0.3.6 Place Into MTH-092 (Form AS)

- Time limit is 60 minutes.
- Types of Questions (32 Total, order varies):
 1. Geometry; fractions
 2. Probability; fractions
 3. Graphs; interpretation
 4. Linear equations
 5. Order relations
 6. Word problems; percents
 7. Word problems; proportions
 8. Decimals
 9. Graphs; interpretation
 10. Word problems; percent
 11. Graphs; interpretation
 12. Geometry; word problems
 13. Linear equations; formula evaluation
 14. Decimals
 15. Formula evaluation; exponents
 16. Approximation; radicals

17. Word problems; approximations
18. Word problems; geometry
19. Approximation
20. Arithmetic of rational numbers
21. Integers; order of operations
22. Order relations of numbers
23. Word problems; decimals; averaging
24. Integers; order of operations
25. Integers; order of operations
26. Approximation; fractions
27. Word problems
28. Geometry; formula evaluation
29. Word problems; percent
30. Geometry; perimeter
31. Word problems; table interpretation
32. Word problems

0.3.7 Place Into MTH-121 (From 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
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; trig functions
22. Trigonometric identities
23. Special angles; trig functions
24. Trigonometric identities
25. Trigonometric graphs