MATH1114 - College Algebra

Credits:	4 (4/0/0)
Description:	Meets MnTC Goal Areas 2 and 4. This course includes rational, polynomial, exponential, logarithmic, inverse and quadratic functions. The course also includes equations, inequalities, complex numbers and systems of linear equations. Additional topics may include matrices and determinants.
Prerequisites:	• MATH1020 OR • Placement Exam
Corequisites:	
Pre/Corequisites*:	• MATH 0095 with a grade of C or higher • MATH0098
Competencies:	1. Analyze characteristics of linear functions and their graphs. 2. Analyze characteristics of the inverses of linear functions and their graphs. 3. Analyze characteristics of quadratic functions and their graphs. 4. Analyze characteristics of the inverses of quadratic functions (on an appropriate domain) and their graphs. 5. Analyze characteristics of polynomial functions and their graphs. 6. Analyze characteristics of rational functions and their graphs. 7. Analyze characteristics of exponential functions, their inverses and their graphs. 8. Analyze characteristics of logarithmic functions, their inverses and their graphs. 9. Analyze characteristics of radical functions. 10. Solve linear systems of equations by substitution, elimination and graphing. 11. Determine real and complex zeros of polynomials. 12. Perform function operations including composition. 13. Use mathematical modeling to solve application problems.
MnTC goal areas:	2. Critical Thinking 4. Mathematics/Logical Reasoning

Can be taking as a Prerequisite or Corequisite.

© 2026 Minnesota State Community and Technical College.
We reserve the right to periodically update information without notice.
The information in this publication should not be regarded as contractual in nature.