MATH2257 - Linear Algebra

Credits:	3 (3/0/0)
Description:	Meets MnTC Goal Areas 2 and 4. The course focuses on systems of linear equations, matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors.
Prerequisites:	• MATH1134
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Solve systems of linear equations using Gauss-Jordan elimination. 2. Construct systems of linear equations to model real-life problems. 3. Apply properties of matrices. 4. Perform matrix operations. 5. Apply properties of determinants. 6. Evaluate the determinant of a matrix. 7. Discriminate between vector spaces. 8. Apply concepts of inner products. 9. Determine whether a given function is a linear transformation. 10. Find eigenvalues and eigenvectors.
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.