

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 2. Critical Thinking 4. Mathematics/Logical Reasoning

*Can be taking as a Prerequisite or Corequisite.