Math 210 – Linear Algebra

Student Learning Outcomes

1. Solve Ax=b using a variety of methods such as Gaussian elimination and inverting the matrix A.
2. Identify a linear transformation and find the eigenvalues and corresponding eigenspaces.
3. Diagonalize a matrix or determine why it is not possible to do so.
4. Orthogonalize bases using the Gram-Schmidt process and produce unique representations in terms of these bases.
5. Prove Linear Algebra theorems and corollaries.
6. Apply Linear Algebra to problems in the sciences.