CSC 3300: Linear Algebra for Computing

Fields, vectors and vector spaces, linear transformations, matrices and matrix algebra, eigenvalues and eigenvectors; Structures and computations in Python for these mathematical objects; Computational applications selected from data science, machine learning, computer vision, graphics, image processing, graph algorithms, quantum computing, information retrieval and web search.

**Credits:** 4.0  
**Prerequisites:**  
CSC 1300  
CSC 1300  
**Program:** Computing Sciences