

# Csci 353: Introduction to Numerical Methods

## Computer & Information Science

This course provides an overview of numerical methods and optimization techniques, laying the foundation for advanced studies in machine learning, data science, and related engineering disciplines. It covers fundamental concepts like numerical errors and algorithm efficiency, delves into topics like interpolation, integration techniques, and matrix factorization, and explores various computational topics essential for data science and engineering.

3 Credits

### Prerequisites

- [Math 263: Unified Calculus & Analytic Geometry III](#)
- Prerequisite: Csci 111 or CIS 111 or Csci 251 or CIS 251; or Csci 113 or CIS 113 (Minimum grade: C-)
- Csci 111 or Csci 251

### Instruction Type(s)

- Lecture: Lecture for CSCI 353

### Subject Areas

- [Computer Science](#)

