

# MATH 578. NUMERICAL ANALYSIS 1.

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Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

## Description

Development, analysis and effective use of numerical methods to solve problems arising in applications. Topics include direct and iterative methods for the solution of linear equations (including preconditioning), eigenvalue problems, interpolation, approximation, quadrature, solution of nonlinear systems.

- Fall
- Prerequisites: MATH 247 or MATH 251; and MATH 387; or permission of the instructor.

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