

COMP 540. MATRIX COMPUTATIONS.

Credits: 4

Offered by: Computer Science (Faculty of Science)

Terms offered: Winter 2026

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Description

Designing and programming reliable numerical algorithms. Stability of algorithms and condition of problems. Reliable and efficient algorithms for solution of equations, linear least squares problems, the singular value decomposition, the eigenproblem and related problems. Perturbation analysis of problems. Algorithms for structured matrices.

- Prerequisite: MATH 327 or COMP 350
- 3 hours
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