

# CHEE 390. COMPUTATIONAL METHODS IN CHEMICAL ENGINEERING.

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Credits: 3

Offered by: Chemical Engineering (Faculty of Engineering)

Terms offered: Fall 2025

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## Description

Linear systems of algebraic equations, Gaussian elimination; non-linear algebraic systems: Taylor series, incremental search, bisection method, linear interpolation, Newton-Raphson's method; differentiation and integration; initial value problems: Euler's and Runge Kutta's methods, stiff equations, adaptive solvers; boundary value problems; curve fitting; numerical optimization; probability theory and stochastic simulation: Monte Carlo method.

- (3-1-5)
- Prerequisites: CHEE 204, COMP 208, MATH 263
- Corequisite: MATH 264

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