

MATH 680. COMPUTATION INTENSIVE STATISTICS.

Credits: 4

Offered by: Mathematics and Statistics (Graduate Studies)

Terms offered: Fall 2025

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

Description

General introduction to computational methods in statistics; optimization methods; EM algorithm; random number generation and simulations; bootstrap, jackknife, cross-validation, resampling and permutation; Monte Carlo methods: Markov chain Monte Carlo and sequential Monte Carlo; computation in the R language.

- Restriction: Not open to students who have taken or are taking EPIB 680
- Prerequisites: MATH 556, MATH 557 or permission of instructor

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

[Launch Visual Schedule Builder](#)