# EPIB 710. ADVANCED METHODS: CAUSAL INFERENCE.

Credits: 3

Offered by: Epidemiology and Biostatistics (Graduate Studies)

Terms offered: Fall 2025

View offerings for Fall 2025 in Visual Schedule Builder.

## Description

Causal inference using potential outcomes has become a standard part of the toolkit for epidemiologic researchers. In this course students will review foundational material on potential outcomes, and then understand and implement advanced methods. The class will emphasize both conceptual understanding and implementation, including analyses of complex datasets. Time-fixed and time-varying exposures will be considered. Methods studied will vary but will include marginal structural models, structural nested models, and targeted maximum likelihood.

- Prerequisite(s): EPIB 705 or equivalent, or permission of instructor.
- Restriction(s): Restricted to Ph.D. students in the Department of Epidemiology, Biostatistics, and Occupational Health.
- Not open to students who have taken EPIB 610.

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

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