EPIB 521. REGRESSION ANALYSIS FOR HEALTH SCIENCES.

Credits: 3

Offered by: Epidemiology and Biostatistics (Faculty of Medicine & Hlth Sci)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

The aim of this course is to provide students with basic principles of regression analyses applicable to the health sciences so that they can understand and use appropriate statistical regression techniques for continuous and discrete data. The course will cover: Linear regression: Regression for two or more explanatory variables, Polynomial regression, Dummy variables, Inference for regression parameters, Confounding and collinearity, Effect modification, Model-checking, Model selection, Prediction. Logistic and Poisson regression: Logistic regression for one or more variables, Interpreting odds ratios, Inference for logistic and Poisson regression parameters, Confounding and interactions in logistic regression, Model selection, Prediction. A very brief overview of survival analysis.

- Prerequisite(s): EPIB 507 or permission of the instructor.
- Restriction(s): Course not open to students registered in the Epidemiology, Biostatistics or Public Health programs. Not open to students who have taken EPIB 591 when topic was “Regression Analysis for Health Sciences".