COMP 565. MACHINE LEARNING IN GENOMICS AND HEALTHCARE.

Credits: 4

Offered by: Computer Science (Faculty of Science)

Terms offered: Fall 2026

View offerings for Fall 2026 (https://vsb.mcgill.ca/vsb/criteria.jsp?term=202609&courses=COMP-565) in Visual Schedule Builder.

Description

Linear models in statistical genetics, causal inference, single-cell genomics, multi-omic learning, electronic health record mining. Applications of machine learning techniques: linear regression, latent factor models, variational Bayesian inference, neural networks, model interpretation.

- Prerequisites: (BIOL 202 or BIOL 302) and MATH 324 and (COMP 451 or COMP 551), or equivalents.
- Restrictions: Not open to students who have taken COMP 597 or COMP 598 when the topic was "Machine Learning in Genomics and Healthcare".

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 (https://vsb.mcgill.ca/vsb/criteria.jsp)