

Course Overview

The course provides a survey of current and emerging approaches in functional genomics and proteomics, with a focus on experimental design and data interpretation.

The course consists in a series of presentations and guided discussions by researchers that are developing cutting-edge functional genomics and/or proteomics approaches.

Topics to be covered this year will include: a) Next Generation nucleic acid sequencing, b) Genetic interactions in model organisms, c) Proteomics and protein interactions, d) High content screening, e) CRISPR technologies, and f) Systematic assay development, g) computational analysis.

Graduate student grades will be based on participation to the discussions (10%), presentation of a research paper in a journal club format (10%), a short presentation of a CIHR-style grant concept, and, ultimately, a written grant proposal (70%).

Course Logistics:

Session: Fall 2024 (classes will take place over 6 weeks, October 22 – November 26, there will also be a final presentation to be scheduled in early December)

Time: Tuesdays (3-5pm ET)

Delivery Mode: In-person