QLSC 600D2. FOUNDATIONS OF QUANTITATIVE LIFE SCIENCES.

Credits: 3

Offered by: Quantitative Life Sciences (Graduate Studies)

Terms offered: Winter 2026

View offerings for Winter 2026 in Visual Schedule Builder.

Description

Provides an overview of important problems in the life sciences and introduces students to the latest computational, mathematical, and statistical approaches involved in their solution. Includes a survey of modern technologies for biological data acquisition and promotes a common language to communicate across the biological, physical, mathematical, and computational sciences. Topics will include bioinformatics and computational genomics, nonlinear dynamics in biological systems, linear and nonlinear models of biological signals, biophysical imaging technology, emergent behaviour in biophysical networks, and ecosystem dynamics and modeling.

- Prerequisite(s): BIOL 200 or BIOL 201; COMP 206, COMP 250, MATH 314; MATH 223 or MATH 236; MATH 323 or MATH 324
- Restriction(s): Priority given to students enrolled in the ad hoc Quantitative Life Sciences Ph.D. program.
- Prerequisite: QLSC 600D1
- No credit will be given for this course unless both QLSC 600D1 and QLSC 600D2 are successfully completed in consecutive terms.

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