BIOL 395 (Fall)
Quantitative Biology Seminar 1

Instructors: A. Hayer                                  Bellini 275     398-8574     arnold.hayer@mcgill.ca

Workload: 1 credit (1-0-2)

Prerequisites: BIOL 200 or BIOL 219, CHEM 212, COMP 250 and MATH 222

Restrictions: Registration is restricted to U2 students in the following programs: Major and Honors Quantitative Biology; Joint Major and Honors Computer Science and Biology; Joint Major Math and Biology; Joint Major Physiology and Math; Joint Major Physiology and Physics; Major and Honors Biophysical Chemistry; and Major and Honors Biological Physics.

Content: This course provides an overview of concepts and current research in quantitative biology: theoretical ecology and evolution, computational biology, and physical biology.

Each week a faculty member will present on their research in a lecture. Readings from the literature or a publication from the lecturer’s research group may be assigned for each lecture to enhance understanding of the material. Readings are available through on-line journal access provided through McGill University. Just like most scientific seminar series currently, this seminar course will be delivered remotely in Fall 2020. Each session will consist of a live 35 min research presentation by local quantitative biology experts followed by a 15 min interactive question and answer session.

Readings: Research papers and reviews will be assigned by participating faculty

Method: One hour seminar a week

Evaluation: Mid-term and final (take-home) exams, and class participation (contributions to discussions). Performance during the midterm (35%) and final exam (55%) and participation (10%) provide the total mark. No make-up or extra credit assignments are permitted.