

Biology 3S03

Bioinformatics

ELEMENTARY SEQUENCE ANALYSIS

Contact Us

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Course description

- Lectures - Mon/Thur 12:30-1:20pm BSB 119
 - Tues 1:30-2:20pm BSB 119
- Tutorials - Mon 11:30-12:20 Location JHE 234
 - Mon 1:30- 2:20 Location JHE 234/A
 - Tue 11:30-12:20, 12:30-1:20 Location JHE 234
- Website - <http://helix.mcmaster.ca/courses.html>
- Text - <http://helix.mcmaster.ca/3S03.pdf>

Tutorials / Assignments

- ▶ Tutorials:
 - ▶ Try to go to your tutorial
 - ▶ Help in the completion of the assignments
- ▶ Assignments (9 in total)
 - ▶ Questions related to the lectures, requiring the knowledge and use of bioinformatics tools
 - ▶ The assignments are due on “DayOfWeek TBA” any time before 5:00 pm
 - ▶ Answers will be posted at “DayOfWeek TBA” 5:01pm
 - ▶ Late assignments cannot be accepted
 - ▶ New assignments are posted “DayOfWeek TBA” after 5pm.
 - ▶ Completed assignments (paper copy) should be put into Boxes 75-78 (first floor LSB)

Course Evaluation

- ▶ Quiz 1 (50 minutes) 20%
- ▶ Quiz 2 (50 minutes) 20%
- ▶ Tutorials / Problems 40%
- ▶ Quiz 3 (2 hours) 20%

Quizzes and Problems are cumulative.

You can work jointly on problem sets but the report is yours alone and must not be copied from or with another student. Plagiarism will result in a grade of zero and potentially dismissal from the course.

Learning objectives

Genomic data is now found in nearly all biological industries and biological endeavors, a basic understanding on how to exploit this data has become indispensable for scientists as well as other technical professionals. A familiarity with genomic data how to gather, analyze, and interpret it, is needed to succeed in most sectors of the life sciences, biotech and biomedical industry.

From this course, you will:

- ▶ Receive a basic introduction to the field of bioinformatics
- ▶ Learn how sequence data is generated, where it is stored, and how to obtain it.
- ▶ Learn the basics behind the major methods and tools used in bioinformatics
- ▶ Be prepared to use elementary sequence analysis in your own work
- ▶ Have built a solid foundation of knowledge and of the vocabulary necessary to communicate with others who use these tools and to learn more about bioinformatics.

All is subject to change

Some legal'ease —

"The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes"

— required by the university.