

**Biology 3S03**

**Bioinformatics**

ELEMENTARY SEQUENCE ANALYSIS

## Contact Us

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## Course description

- Lectures - Tues/Wed/Fri 12:30-1:20pm BSB 119
- Tutorials - Tues 9:30 - 11:20 Location BSB 241  
Wed 8:30-10:20, 11:30-12:20 Location BSB 241
- 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 Wednesday any time before 5:00 pm
  - ▶ Answers will be posted Wednesday at 5:01pm
  - ▶ Late assignments cannot be accepted
  - ▶ New assignments are posted Wednesday after 5pm.
  - ▶ NOTE: the last assignment is due day classes end

## Course Evaluation

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

# Schedule (subject to change)

		Tue 12:30		Wed 12:30		Fri 12:30	(PS due) Wed 5:00
Sept	6	Introduction	7	Genomics 1	9	Paper 1	
	13	Genomics 2	14	Genomics 3	16	Genomics 4	
	19	Databases 1	21	Databases 2	23	Entrez	(PS1)
	26	File Formats	28	Alignments 1	30	Alignments 2	(PS2)
Oct	4	Alignments 3	5	Alignments 4	7	Midterm 1	(PS3)
	11	—	12	—	14	—	
	18	Postmortem	19	Paper 2	21	Distances 1	
	25	Distances 2	26	Distances 3	28	Distances 4	(PS4)
Nov	1	FASTA	2	BLAST	4	Phylogeny 1	(PS5)
	8	Phylogeny 2	9	Phylogeny 3	11	Phylogeny 4	(PS6)
	15	Midterm 2	16	Paper 3	18	Patterns 1	
	22	Postmortem	23	Patterns 2	25	Patterns 3	(PS7)
Dec	29	Gene finding 1	30	Gene finding 2	2	Gene finding 3	(PS8)
	6	Review	7	-?-	9	—	(PS9)

(PS = problem set)

## 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.