

# CMPBIO 293

## Doctoral Seminar in Computational Biology

**Instructor:** John Huelsenbeck  
**GSI:** Tal Ashuach  
**Units:** 2.0 (Letter Grade)  
**Course Format:** Seminar  
**Course Number:** 22999  
**Hours:** Wednesdays, 12:00–14:00

**Course Description:** This one-year interactive seminar builds skills, knowledge and community in computational biology for first year Ph.D. and second-year Designated-Emphasis students. Topics covered include concepts in human genetics/genomics, laboratory methodologies and data sources for computational biology, workshops/instruction on use of various bioinformatics tools, critical review of current research studies and computational methods, preparation for success in the PhD program and career development. Faculty members of the graduate program in computational biology and scientists from other institutions will participate. Topics will vary each semester.

Fall 2017 Syllabus:

Week	Date	Subject
1	08/23/2017	Introduction to the class
2	08/30/2017	Programming: Tricks of the Trade (I)
3	09/06/2017	LaTeX
4	09/13/2017	Programming: Tricks of the Trade (II)
5	09/20/2017	Programming: Tricks of the Trade (III)
6	09/27/2017	Faculty Presentation and Journal Club (Rasmus Nielsen)
7	10/04/2017	Faculty Presentation and Journal Club (Michael Jordan)
8	10/11/2017	Student Choice
9	10/18/2017	Graduate student survival skills
10	10/25/2017	How to apply for an academic job
11	11/01/2017	Applying for grants in academia
12	11/08/2017	How to give a scientific talk
13	11/15/2017	Student Talks (1)
14	11/29/2017	Student Talks (2)
15	12/06/2017	End of Semester Social