

## Genomics & Society: A Community of Learning

2:00 PM – 3:30 PM, Tuesdays & Thursdays  
Room 404A Biological Sciences Building

Instructors:	Office Location	Phone Number
Dr. Bill Barstow	403 Biological Sciences	542-1688
Dr. Jonathan Arnold	C308B Life Science Bldg.	542-1449
Teaching Assistants:		
Peter Horanyi	B204 Life Sciences Bldg.	542-3403

Textbook: <b>Biology</b>	Campbell, Reece and Mitchell (Benjamin Cummings)
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### Course Policies:

Prerequisite: Introductory Chemistry

Requirement: Must take 1107 Lab designed for this course

### Reading assignments are to be completed prior to the associated lecture-discussion.

Due to the amount of material covered, it is critical that you prepare **DAILY** for this course; you will fall behind quickly.

### Office Hours: The faculty and teaching assistants in this course are committed to helping you.

- The **TAs will have office hours**, but since these set times are often not convenient for students with busy class and work schedules, **we will also see you by appointment outside office hours**.
- Appointments will be made in the evenings or on weekends, if necessary, to accommodate your schedules.
- We **strongly encourage you to contact us early** if you are having trouble with the course, or if you have suggestions to improve the course.

### Deadlines:

Tuesdays	Exams, projects and assignments
Friday	Short oral presentation by group

Grading: There will be 3 exams and one end of semester project of equal weight; oral presentations worth are 10%.

Missed assignment or exam	Obtain written verification for an excused absence from Office of Student Affairs ( Dr. Rick Rose - 542-3564 ) Failure to do so; your grade will be zero
Excused absence for 1 exam	Grade determined on the basis of the remaining exam and quizzes
Excused absence 2 or more exams	Automatically receive an incomplete. Whether incomplete is passing or failing will depend on your performance on completed exams and project

Drop & Withdraw Deadline: The deadlines for dropping and withdrawing from the course will be strictly adhered to. After the drop-add period (which ends Jan. 10th) withdrawals will be handled by Dr. Bill Barstow in accordance with university policy. It is the student's responsibility to file a signed

drop/withdrawal card with the Dean's office by the midpoint of the semester (March 1). Withdrawals after that date will be given with a passing or failing notation.

**Lectures/Discussions:** Students will begin each week in two lectures/discussions given by either Dr. Arnold or Dr. Barstow. Each week the lectures, discussion and lab will be correlated.

## **CLASS SCHEDULE**

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
<b>January</b>		
9 Tu	Computing Life	Chapter 1 and Handout
11 Th	Chemistry of Life	Chapter 3
16 Tu	Chemistry of Life	Chapter 3
18 Th	Periodic Tables of Life	Chapter 4-5
23 Th	Metabolism	Chapter 6
25 Tu	Transformation & Double Helix	Chapter 16
30 T	DNA technology	Chapter 20
1 Th	Human Genome Project	Handout
<b>February</b>		
6 Tu	Genomic Sequencing	Chapter 20
8 Th	DNA is genetic material	Chapter 16
13 Tu	Central Dogma	Chapter 17
13 Tu	Review	all chapters
20 Tu	Test 1	
22 Th	Human Genome Project	Handout
<b>March</b>		
27 Tu	Microbial Genetics	Chapter 18
29 Th	Cell	Chapter 7
6 Tu	Break	
8 Th	Break	
13 Th	Carbon metabolism	Chapter 9
15 Tu	Photosynthesis	Chapter 10
20 Th	respiration	Chapter 9
22 Tu	Cell communication	Chapter 11
27 Tu	Cell Cycle	Chapter 12
29 Th	Mendel	Chapter 14
<b>April</b>		
3 Tu	Chromosome Theory	Chapter 15
5 Tu	genetic mapping	Chapter 15

10 Tu	Complex Traits	Ch. 15 & Handout
10 Th	Review	all chapters since first test
17 Tu	Test 2	
19 Th	Microevolution	Ch. 23
24 Tu	Natural Selection	Ch. 22

**Project Due Date and Poster Presentation at Classic Center, April 3**  
**Final Poster presentation on April 26 in class**

First poster presentation on April 3 is a prospectus stressing the humanist elements.

Final poster presentation on April 26 is a scientific poster stressing results from the biological circuit simulation. Students are encouraged to present same at undergraduate research symposium and to publish results in the undergraduate research journal.