

2015

# Biology 186-W001 Heredity and Society Lab Spring 2015

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## Recommended Citation

Dalton, Rosetta, "Biology 186-W001 Heredity and Society Lab Spring 2015" (2015). *Biology Courses*. Paper 1.  
[http://spark.parkland.edu/bio\\_course/1](http://spark.parkland.edu/bio_course/1)

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# BIO 186- W001 HEREDITY AND SOCIETY LAB SYLLABUS

(Subject to change due at the discretion of the instructor)

## *Spring 2015*

**Course Objectives:** Biology 186 is the lab portion to accompany Biology 106 Human Genetics and Society. By taking Biology 186 concurrently with Biology 106, you will satisfy the general education requirement to take a life science with a lab for graduation. For this reason, all of the labs are designed to support the material that you are learning in Biology 106.

**Homework/assignment policy:** No late work will be accepted unless a student has made a prior arrangement with the instructor. In order to be excused, the student must contact the instructor on or before the day an assignment/lab is due. **Excused** late work will only be accepted for 5 weekdays after the assignment was first due.

	<b>Labs</b>	<b>Dates Covered</b>	<b>Due Date (11:45 CT)</b>	<b>Points</b>
<b>GS</b>	Getting Started	January 12-16	<b>Friday January 16<sup>th</sup></b>	0
<b>Lab 1</b>	Mitosis	January 12-16	<b>Friday January 16<sup>th</sup></b>	25
<b>Lab 2</b>	Meiosis	January 19-23	<b>Friday January 23<sup>th</sup></b>	25
<b>Lab 3</b>	Monohybrid Cross	January 26-30	<b>Friday January 30<sup>th</sup></b>	25
<b>Lab 4</b>	Dihybrid Crosses	February 2-6	<b>Friday February 6<sup>th</sup></b>	25
<b>Lab 5</b>	X-Linked Traits	February 9-13	<b>Friday February 13<sup>th</sup></b>	25
<b>Lab 6</b>	Environment and Gene Expression	February 16-20	<b>Friday February 20<sup>th</sup></b>	25
<b>Lab 7</b>	Problems with Nondisjunction	February 23-27	<b>Friday February 27<sup>th</sup></b>	25
<b>Lab 8</b>	Pedigrees	March 2-6	<b>Friday March 6<sup>th</sup></b>	25
<b>Lab 9</b>	DNA to Protein	March 9-13	<b>Friday March 13<sup>th</sup></b>	25
<b>Lab 10</b>	Mutations	March 16-20	<b>Friday March 20<sup>th</sup></b>	25
<b>Lab 11</b>	Designer Proteins	March 30-Apr. 3	<b>Friday April 3<sup>rd</sup></b>	25
<b>Lab 12</b>	Cancer and Genetics	April 6-10	<b>Friday April 10<sup>th</sup></b>	25
<b>Lab 13</b>	Population Genetics I	April 13-17	<b>Friday April 17<sup>th</sup></b>	25
<b>Lab 14</b>	Population Genetics II	April 20-24	<b>Friday April 24<sup>th</sup></b>	25

<b>Lab 15</b>	DNA Hybridization	April 27-25	<b>Friday May 1<sup>st</sup></b>	25
<b>Lab 16</b>	Genetic Technology	May 4-May 8	Friday May 8 <sup>th</sup>	<b>25</b>

All of the labs are due by 11:45 p.m. Central Standard Time on the date listed above. Your lowest lab score will be dropped.

<u>Points Earned</u>	<u>Grade</u>
375-337	A
336-300	B
299-262	C
261-225	D
<225	F

**Note:** Please use your textbook, Human Genetics Concepts and Applications, and the power point presentations from each of the associated modules as a resource.

#### **TEXTBOOK**

"Human Genetics Concepts and Applications" 11<sup>th</sup> edition by Ricki Lewis ISBN 0073525365

**GRADING POLICY:** This course is based on a ninety, eighty, seventy, sixty percent scale. If at the end of the course you have earned ninety percent of the points or more, you will receive an 'A' for your work. If at the end of the course you have earned between 80-89.9 percent of the points you will receive a 'B' for your work. If at the end of the course you have earned between 70-79.9 percent of the points, you will receive a 'C' for you work and so forth. **Your lowest lab will be dropped.**

**ACADEMIC POLICY:** Anyone found to be cheating will receive a zero for that assignment and the incident will be reported to the Dean. Cheating includes copying assignments from the internet or another student's assignments (from this or previous semesters). The complete policy is found on pages 3-5 of the "Student Policies and Procedures Manual" (Fall 2006). An atmosphere of mutual respect between and among teachers and students is expected.

## ***Academic Honesty***

See [www.parkland.edu/studentpolicy/honesty](http://www.parkland.edu/studentpolicy/honesty)

**ACADEMIC POLICY:** Anyone found to be cheating will receive a zero for that assignment and the incident will be reported to the Dean. Cheating includes copying assignments from the internet or another student's assignments (from this or previous semesters). The complete policy is found at the website listed above. An atmosphere of mutual respect between and among teachers and students is expected.

## ***Core Values***

We believe strongly in the Core Values espoused by Parkland College: Honesty and Integrity, Fairness and Just Treatment, Responsibility, Multiculturalism, Education, and Public Trust. Essentially, these values set guidelines for how we should treat you and how you should treat each other (and us). Failure to be respectful of one another or to maintain ethical behavior will not be tolerated.

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## ***WITHDRAWALS***

I am required by Parkland to assess your attendance. After one week of class, if you have (1) sent me an e-mail using Cobra , and (2) turned in the Getting Started Lab and the first lab (Mitosis Lab) you will be consider an active participant in this course. If you have not completed these tasks **and have not contacted me to explain why**, I will be forced to withdraw you from the class. Again, at midterm, I will be assigning midterm grades. The same rules apply. If you are not making satisfactory progress toward completion of the course **and have not contacted me to explain why**, I will be forced to withdraw you from class.

### **After midterm I will not be able to withdraw any student from the class**

If you need to withdraw from the class the ultimate responsibility is yours. **Do not assume that I am going to drop you from the class.** Make sure you know the final date for withdrawal. If you leave the class after midterm and fail to officially withdraw you will be given an F.

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## ***LEARNING DISABILITIES***

**NOTE:** "If you feel you have a disability which may require an accommodation, e.g. an alternate testing environment, use of assistive technology, or other classroom assistance, please contact the following person at the Disabilities office and let your instructor know as soon as possible:

**Cathy Robinson, Director  
Office Disability Services**

**(217)353-2338**  
[crobinson@parkland.edu](mailto:crobinson@parkland.edu)

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## ***CENTER FOR ACADEMIC SUCCESS***

**Provides a wide range of academic support services to enable you to learn well, grow as a student, succeed in your classes, and excel at what you do. These services include the following:**

**Tutoring and Learning Assistance:** Make use of walk-in tutoring services provided by faculty, staff and trained peer tutors on a daily basis. Many students come to get help in reading, writing math (all levels) and study skills.

**For-credit Instructional Modules and Supplemental Tutorials:** Enroll in one-credit hour Tutorials to supplement classroom instruction in reading, writing, and math. Instructional Modules are also available to eligible students to complete certain coursework requirements.

**Advising and Advocacy:** Work with our team of advocates and academic advisor to plan a semester schedule, understand transfer requirements, or manage issues that stand in the way of school.

**For more information, please contact:**

Anita Taylor    Sue Schreiber

D 120            D 120  
403-4580        351-2441

You may also email CAS at [CenterForAcademicSuccess@parkland.edu](mailto:CenterForAcademicSuccess@parkland.edu)

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## ***Questions???***

I highly recommend that you contact me through the cobra email system. My students are my priority, for this reason, I check my cobra emails first. Feel free to contact me any time, however, if you contact me via cobra email no later than 5:00 p.m. (Monday through Friday), I will respond to you on the same day. If you contact me after 5:00 p.m., I will respond to you the next day, unless it is over the weekend. Since your labs are due on Fridays by 11:45 p.m., please be sure to not wait until the last minute to do the labs. Again, after 5:00 p.m. on Friday, I will no longer be available for questions.

Also, you can call me at Parkland anytime. I have listed my office hours below. If you call me during my office hours, you will be able to speak to me immediately. If you call me outside of my office hours, I will call you back as soon as possible. Again, if you call me after 5:00 p.m. on Friday, I will get back to you on Monday. My office phone number is 217-351-2292. I am here to help and support you throughout the class.

Office hours:

Mondays, Tuesdays and Wednesdays 6-6:50 p.m.

Thursdays 6:00-7:50 p.m.