

**Time:** MWF 11:00am-12:00pm  
**Location:** PHE 121

**Lab:** Tuesday 1:30-3:20pm  
**Location:** PHE 208

**Instructor:** Dr. Jessica Sharpe

**Office:** 235 Proctor Hall East (PHE)

**Office hours:** Mon 1:30-2:30pm, Tues 9:30-10:30am, Thurs 2:00-4:00pm

I am always available after lab and by appointment.

**Campus phone:** 272-7102, ext. 577

**Email:** jessica.sharpe@gborocollege.edu

**Text:** *Biology: Concepts and Connections*, by Campbell *et al.*, 2006 (5<sup>th</sup> edition)

**Purpose:** This purpose of this course is to provide a basic coverage of biology for non-majors. This course outlines the principles of cell division, genetics, ecology, and evolution. Additionally, the six kingdoms of life will be discussed.

<b>Grading:</b> 4 Lecture Exams, 100 pts. each:	400 pts. (67%)	<b>Scale:</b> A = 90-100%
3 Lab Exams, 50 pts. each:	150 pts. (25%)	B = 80-89 %
3 Lab Quizzes		C = 70-79%
(drop lowest score) 25 pts. each:	<u>50 pts.</u> (8%)	D = 60-69%
	600 pts.	F = Below 60%

Improvement & lab performance can enhance grade.

**Tentative Schedule**

<u>Week</u>	<u>Topic</u>	<u>Chapters</u>
1/16	Introduction, Cells	1, 3-4
1/21	Mitosis, Meiosis	8
1/28	Mendelian Genetics	9
2/4	Mendelian Genetics, Inheritance Patterns	9
<b>Fri. 2/15</b>	<b>EXAM 1 (material -2/8)</b>	
2/11	Molecular Genetics	10-11
2/18	Molecular Genetics, Biotechnology	10-12
2/25	Evolution	13-14
3/3	<i>SPRING BREAK</i>	
3/10	Evolution	14-15
<b>Fri. 3/14</b>	<b>EXAM 2 (material 2/11-2/29)</b>	
3/17	Taxonomy, Prokaryotes, Protists	16
3/24	Plant, Fungi	17
3/31	Animal Diversity	18-19
4/7	Ecology: Biomes, Communities	34
<b>Wed. 4/9</b>	<b>EXAM 3 (material 3/10-4/2)</b>	
4/14	Populations, Ecosystems	36-37
4/21	Ecosystems, Conservation	37-38
4/28	Review	
<b>Mon. 5/5</b>	<b>FINAL EXAM (4/4-4/28)</b>	

### **Attendance Policy**

1) Attendance in lecture is expected; attendance in laboratory is mandatory. Do not schedule appointments or other commitments during lab periods. If you miss lecture, you are responsible for the missed material. If you know in advance that you are going to miss a lecture, please let me know.

2) Exams must be taken on the scheduled date. If you miss an exam, you must provide a valid written excuse to schedule a make-up exam. Excused absences include illness (with a doctor's note) or college functions (with a note from the sponsoring faculty member). You must take the make-up exam within one week of the original exam date or you will receive a zero for that exam.

3) Lab tests cannot be made-up. Lab tests have time-consuming set-ups and short life-spans. Missing a lab exam will result in a zero for that exam.

### **Honor code**

This course will be conducted under the Greensboro College Honor code as stated in the *Academic Catalog*. You will be expected to reaffirm this pledge by your signature on each quiz/exam.

**All cell phones must be turned off and completely out of sight during class and lab.**

Please make sure you turn the ringer off. Text messaging will not be tolerated.

### **Special Needs Policy**

If you require special accommodations it is your responsibility to communicate them to me. Please bring me your 504 plan within the first two weeks of class. I will do my best to work with you and meet your needs.

### **General Education Objectives**

*All students should learn to...*

#4: reason to reach logical conclusions

#6: think critically about ethics and values

#10: explore and understand the natural world in a scientific fashion.

### **Teacher Certification**

Biology with licensure majors should save at least one example of their work in this course for inclusion in their teaching portfolios. For more information, contact Marjorie Larkin (ext. 364)

### **Competencies**

Competencies fulfilled by General Biology 1110 are on file in the office of the Vice President of Academic Affairs and/or in the office of the Director of Teacher Education.

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**Materials:** *Laboratory Outlines in Biology*, by Abramoff & Thomson (6<sup>th</sup> edition)

Recommended: colored pencils

**Grading: Laboratory = 33% of the overall grade for this course**

3 Lab Practicals/Exams, 50 pts. each= 150 pts

3 Lab Quizzes (drop lowest score) 25 pts. each = 50pts

Participation and any handouts/assignments will be calculated into lab exam grades.

### **Tentative Schedule**

<b><u>Tuesday</u></b>	<b><u>Topic</u></b>	<b><u>Readings</u></b>
1/22	Mitosis	57-62
1/29	Genetic Problems	handouts
2/5	<b>Lab Quiz 1; DNA Fingerprinting</b>	handouts
<b>2/12</b>	<b>LAB PRACTICAL 1</b>	
2/19	Bacteria, Protists	28, 157, 167-195
2/26	Fungi	197-207
3/4	<i>SPRING BREAK</i>	
3/11	Mosses, Ferns, Seed Plants	209-227
3/18	<b>Lab Quiz 2; Sponges, Cnidarians</b>	291-301
<b>3/25</b>	<b>LAB PRACTICAL 2</b>	
4/1	Worm-like Phyla	303-316, 325-333
4/8	Mulloscs, Arthropods	317-323, 335-350
4/15	<b>Lab Quiz 3; Echinoderms-Chordates</b>	351-373
<b>4/22</b>	<b>LAB PRACTICAL 3</b>	