



## **Biology 105 - The Organization and Diversity of Life Fall 2010**

### **Course Description**

This course studies biological concepts and mechanisms using current examples from medicine and the environment.

### **Class Schedules**

Wednesday and Friday 9:45-11AM  
Room A1045

### **Instructor Information**

Julie Somers  
Email: [jsomers@ambrose.edu](mailto:jsomers@ambrose.edu)

### **Textbooks**

Biology: Concepts and Connections, 6th Edition  
Campbell, NA, LG Mitchell, and JB Reece,  
Prentice- Hall

### **Attendance**

Attendance at lectures will help ensure success on course exams and assignments.  
There may be some spontaneous in class assignments.

### **Course Outline**

<b>Date</b>	<b>Topic</b>	<b>Text Chapters</b>
<b>Sept 8</b>	<b><i>Intro, Scientific Method, Biodiversity</i></b>	<b>1</b>
<b>Sept 10</b>	<b>Chemistry, Molecular Biology</b>	<b>2,3</b>
<b>Sept 15</b>	<b>Cell Biology</b>	<b>4,5</b>
<b>Sept 17</b>	<b>Cellular Respiration, Cell Cycle Mitosis</b>	<b>6,8</b>
<b>Sept 22</b>	<b>Cell Meiosis, Inheritance</b>	<b>8,9</b>
<b>Sept 24</b>	<b>Gene structure, replication, control, cloning</b>	<b>10, 11,12</b>
<b>Oct 29</b>	<b>Tissue, Integumentary, Homeostasis/ Review for Midterm</b>	<b>20</b>
<b>Oct 1</b>	<b>Midterm I</b>	
<b>Oct 6</b>	<b>Support and Locomotion</b>	<b>30</b>
<b>Oct 8</b>	<b>Nervous System</b>	<b>28</b>
<b>Oct 13</b>	<b>Senses</b>	<b>29</b>

<b>Oct 15</b>	<b>TBA</b>	
<b>Oct 20</b>	<b>Community Day – no class</b>	
<b>Oct 22</b>	<b>Nutrition and Digestion</b>	<b>21</b>
<b>Oct 27</b>	<b>Gas Exchange</b>	<b>22</b>
<b>Oct 29</b>	<b>Circulation</b>	<b>23</b>
<b>Nov 3</b>	<b>Immune System</b>	<b>24</b>
<b>Nov 5</b>	<b>Endocrinology</b>	<b>26</b>
<b>Nov 10</b>	<b>Reproduction</b>	<b>27</b>
<b>Nov 12</b>	<b>Evolution</b>	<b>13,14</b>
<b>Nov 17</b>	<b>Review for Midterm II</b>	
<b>Nov 19</b>	<b>Midterm II</b>	
<b>Nov 24</b>	<b>Ecology</b>	<b>34</b>
<b>Nov 26</b>	<b>Behavioural Adaptations/Population Ecology</b>	<b>35, 36</b>
<b>Dec 1</b>	<b>Communities and Ecosystems</b>	<b>37</b>
<b>Dec 3</b>	<b>Photosynthesis and Plants</b>	<b>7, 31</b>
<b>Dec 8</b>	<b>Review for Final exam</b>	<b>32</b>
<b>Dec 17</b>	<b>Final Exam</b>	

### **Expected Learning Outcomes**

Students will gain a greater understanding of biological principles and be able to apply these principles to animal and human systems. Students will achieve a greater appreciation for life sciences and current knowledge in the field.

### **Course Requirements**

Mid Term I	20%
Midterm II	20%
Assignments	20%
Final Exam	40%

The term tests and final exam will be a combination of multiple choice questions, as well as short and long answer questions. While most questions will be based on lecture material, the textbook reading will absolutely help in the understanding of this material. There will be assignments given to help work through the material.

### **Examinations:**

The final exam for this course is scheduled for Friday, December 17, 2010.

Graded final examinations will be available for supervised review at the request of the student. Please contact the Registrar's Office.

**Grading:** The available letters for course grades are as follows:

A+	97-100%	C	63-66%
A	93-96%	C-	60-62%
A-	89-92%	D+	55-59%
B+	83-88%	D	50-55%
B	77-82%	F	Below 50%
B-	70-76%		
C+	67-69%		

**Important Notes/Dates:**

The last day to enter a course without permission and /or voluntary withdrawal from a course without financial penalty – Friday, September 17, 2010 (Fall semester)

The last day to voluntarily withdraw from a course or change to audit without academic penalty – Friday, November 12, 2010 (Fall semester)

***Please note that final grades will be available on your student portal. Printed grade sheets are no longer mailed out.***

**Classroom Etiquette:**

It is expected that students will take an active role in the learning process. This includes: (a) regular class attendance, (b) reading course material in advance of class, and (c) engaging in discussions during class.

In respect to the professor and to your fellow students, we ask that you:

- a) Turn your phone off during class and that you don't use it for texting during lecture or lab
- b) Not have conversations with the people beside your during lecture – it is very distracting to the people around you
- c) Use your laptops for lecture material and assignments only – that you are not using the internet or facebook during class time.
- d) Arrive to lecture and lab on time
- e) Don't come to class or lab with your ipod or equivalent.

These will help to maximize the learning experience for you and your fellow students (and will keep your professor in a good mood).

*It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Student Handbook and Academic Calendar. Personal information, that is information about an individual that may be used to identify that individual, may be collected as a requirement as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at [privacy@ambrose.edu](mailto:privacy@ambrose.edu).*

*Academic dishonesty is taken seriously at Ambrose University College as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism*

*involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to give credit to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from Ambrose. Students are expected to be familiar with the policy statements in the current academic calendar and the student handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.*

*We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the policies in the current Academic Calendar and the Student Handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean.*