



COURSE INFORMATION SHEET
BIO 133 – Organismal Biology of Plants and Animals

Tentative Course Outline and Schedule for Winter semester, 2012.

Note : Credit for both BIO 133 and 105 will not be allowed.

Time: Lectures – T/R, 1:00-2:15
Labs - T – 4:00

Instructor : Dr. Carol Kroeker
Office : A2156
Phone: 410-2000, ext 5910
Email: ckroeker@ambrose.edu

Text : Biology, Seventh or Eight Edition
Campbell, NA and JB Reece,
Prentice- Hall

Learning Objectives:

1. Students will gain a greater understanding of fundamental biological principles
2. Students will be able to discuss the anatomy and physiology of many animal systems including circulation, digestion, reproduction, and the nervous system, as well as understanding the anatomy and physiology of plants
3. Students will learn laboratory techniques essential to research in biology-related fields.
4. Students will collaborate with peers to design and carry out a research project and be able to present this in written and oral formats

Mark Distribution :

2 Midterm Exams	40%
Laboratory Reports	20%
Final Exam	40%

This course consists of 3 hours of lectures per week, plus a 3-hour lab. The midterm 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. Attendance at lectures will help ensure success on course exams and assignments.

<u>Dates</u>	<u>Topic</u>	<u>Text Chapters</u>
<u>Week of</u>		
Jan. 10	Intro to Descent / Protists / Fungi	22, 28, 31
Jan. 17	Animal diversity and phylogeny	32-34
Jan. 24	Locomotion and Support	40
Jan. 31	Nervous System / Sensory System	48, 49
Feb. 7	/Homeostasis / Endocrine System	44, 45
Feb. 14	Exam I / Cardiovascular system	42
Feb. 21	Reading Week	
Feb. 28	Respiratory System / Urinary	42
Mar 6	Digestive System / Reproduction	41, 46, 47
Mar 13	Exam II / Algae	28
Mar 20	Terrestrial Adaptations – non-vascular plants Non-seed plants, gymnosperms, angiosperms	29, 30, 38
Mar 27	Seedling Growth and Development Plant Structure and Growth- Secondary growth	38, 35 35
Apr. 3	Mineral Nutrition, Hormonal Control of growth Transport of water and nutrients, transpiration	39 35, 36
Apr. 10	Ecology	52-56

Laboratory Schedule

Lab topics will include: Anatomy and Physiology of specific body systems, comparative classification of animals, comparative function, and botany.

Labs will begin the week of January 17th.

Labs 1-3 - Phylogeny – protists, fungi, invertebrates and vertebrates

Labs 4-7 – Comparative physiology of body systems

- Reproduction, development, metabolism

Labs 8-10 – Botany

- Germination, diversity, vascular systems

Lab 11 – Ecology

- Population studies

Attendance at the laboratory sessions is **COMPULSORY**. Any lab missed without a valid excuse cannot be made up. Lab coats are not required.

The lab portion of this course will consist of 3 lab assignments and 2 lab reports worth 4% each.

Grading Scheme

A+	97-100%	C+	67-70%
A	90-96%	C	63-67%
A-	87-90%	C-	60-63%
B+	83-87%	D+	54-59%
B	77-83%	D	50-53%
B-	70-77%	F	Below 50%

Important Notes/Dates:

The last day to enter a course without permission and /or voluntary withdrawal from a course without financial penalty – Friday, January 21, 2011

The last day to voluntarily withdraw from a course or change to audit without academic penalty – Friday, March 18, 2011.

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 you 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.

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.