

COURSE OUTLINE

Grading Systems



School of Arts & Science

BIOL 080 Inquiry into Life
Winter 2011

COURSE OUTLINE

This course is intended for the student interested in learning about the structure and function of the human body. The major areas of study are cell biology, and human anatomy and physiology. This course provides grade 12 biology equivalency.

Prerequisites: English 10 or assessment. *Math 10 recommended.*

Lecture (A&B)	T/Th 1:00-2:20	Fisher 216
Lab A	T 2:30-3:50	Fisher 226
Lab B	T 4:00-5:20	Fisher 226

1. Instructor Information

Instructor: Charles Molnar

Office hours: TBA

Office location: F-340B

Phone: 370-3449

e-mail: molnar@camosun.bc.ca

2. Intended Learning Outcomes

1. Describe cellular structure and explain cellular processes such as respiration and protein synthesis.
2. Discuss cancer and genetic engineering in the context of cellular processes.
3. Describe the structure and function of the human digestive system, cardiovascular system, respiratory system, nervous system, urinary system and reproductive system.

3. Required Materials

- (a) Textbook: Johnson . 2008. Essentials of **The Living World**, 3rd ed. McGraw-Hill.
- (b) **BIOL 080 Laboratory Manual**

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4. Course Content and Schedule

The following tentative schedule is subject to change if deemed necessary by the instructor.

WK	DATE (week of)	BIO 080 LECTURE TOPICS	TEXT CH. # (all or part)	BIO 080 LAB TOPICS
1	Jan. 10	Course Introduction: Biology Overview; Scientific Method	1	Introduction, Lab Safety
2	Jan. 17	Organic Macromolecules: Carbohydrates, Proteins, Nucleic Acids, Lipids	4	1. Metric Measurements
3	Jan. 24	Cells & Organelles; Membrane Transport	5	2. Microscopy and Cell Structure
4	Jan. 31	Enzymes Cellular Respiration	6 8 -----	4. Diffusion/Osmosis
5	Feb. 7	<u>MIDTERM I</u> DNA & RNA; Genetic Code Protein Synthesis - overview	12 13	4. Enzyme activity
6	Feb. 14	Transcription & Translation Cell Division: Mitosis; Cancer	13 9	5. Organic Compounds
7	Feb. 21	Cell Division: Meiosis Genetic Engineering	10 14 -----	<i>No Lab</i>
8	Feb. 28	Cardiovascular System Lymphatic System	25	<u>LAB EXAM I</u>
9	Mar. 7	Respiratory System	26	6. Cardiovascular Fitness
10	Mar. 14	<u>MIDTERM II</u> Digestive System Nutrition	27	7. Nutrition
11	Mar. 21	Excretory (Urinary) System	28 -----	8-9. Human Organ Systems: Models
12	Mar. 28	Nervous System	30	8-9. Human Organ Systems: Models
13	Apr. 4	Reproductive System	32	<u>LAB EXAM II</u>
14	Apr. 11	TBA		<i>No Lab</i>
Feb. 24-25 Reading break: : March 14 Last day to Withdraw Exam Period April 18-21, 26-29 Do not book flights! Exam schedule out in Feb. Wait!!!!				

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5. Basis of Student Assessment

Assignments/quizzes 15%

Exams:

Midterm I 15%

Midterm II 15%

Lab Exam I 15%

Lab Exam II 15%

Final Exam 25%

Midterms and lab exams will be unit exams; the final exam will be comprehensive, with proportionately greater emphasis on the last topics not covered by previous exams. . Lab exams will consist of a series of “stations” consisting of equipment and/or specimens, with accompanying questions testing both practical and theoretical knowledge. Please bring a pen *and* pencil (with eraser) to all exams.

6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 90 - 100%

A = 85 - 89%

A- = 80 - 84%

B+ = 77 - 79%

B = 73 - 76%

B- = 70 - 72%

C+ = 65 - 69%

C = 60 - 64%

D = 50 - 59%

F = 0 - 49%

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

STUDENT CONDUCT POLICY

There is an Academic Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at

<http://www.camosun.bc.ca>

ADDITIONAL INFORMATION

Academic Conduct: Be sure that you are familiar not only with the Student Conduct Code (s.a.), but also with the General Department Policies, which are stated in the lab manual.

Cheating or plagiarism will not be tolerated in any form, and may result in “0”.

Each student is required to sign and hand in a Laboratory Safety Contract prior to commencing laboratory work in the course.

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Attendance: You are expected to attend all classes and labs, and be on time. It is *your* responsibility to acquire *all* information given during a class missed, incl. notes, hand-outs, assignments, laboratory data, changed exam dates etc.

Exams: Exams have to be written when scheduled. There are no make-up exams during the term. **A missed exam results in “0” except in case of documented emergency or illness** (doctor’s note required stating that student is too sick to attend class during a specified time period). Valid documentation of illness/emergency needs be received within 1 week of the illness/emergency. **No programmable devices are allowed in exams.**

Labs: You need to attend labs and lab exams during your assigned section (A or B). Switching between sections on a permanent or temporary basis requires instructor’s permission. Lab assignments can only be handed in for labs actually attended (except in cases of documented illness/emergency). You are encouraged to discuss assignments with your lab partner, however, **each assignment has to be your individual work – beware of plagiarism.** It is absolutely necessary to read and mentally **work through each exercise before coming to lab.** Otherwise you may not be able to finish on time, annoy your lab partner, or flunk a pre-lab pop quiz.

Assignments: Unless otherwise stated, all assignments are due at the **beginning** of the lab/class of the due date. There is a **10%/day non-negotiable late penalty** (rounded to the nearest full mark) except in cases of documented illness/emergency. Late assignments will **not** be accepted after marked assignments have been returned to the rest of the class. A **professional format** is expected, i.e. a neat, legible, clean copy. “Rough” drafts risk rejection and a subsequent late penalty or reduced marks. If the assignment is more than one page, separate pages **must be stapled.**

Study Habits: You will probably find this course not very difficult, but surprisingly labor-intensive. Good (and regular!!) study habits are required to do well in this course. You should plan on a **minimum of 6 hours** outside of scheduled class time for the completion of assignments and for general studying. Joining a study group can help this make more fun.

Lecture notes will be provided in point form.. These should be used as an outline, not as your sole source of information! You will need to write down additional notes of examples and explanations given during lecture. It is also recommended practice to transcribe these notes into a study-friendly format after each lecture, incorporating additional information from your textbook and other sources. Study these notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Exam questions will be mostly based on material covered or pointed out in class. However, studying additional details in the corresponding textbook sections will help you understand the material more thoroughly. It is not sufficient simply to memorize point-form notes! Please keep up with your readings, and take advantage of office hours if you need extra clarification and help, or simply would like to discuss a topic a little further.