

**COURSE OUTLINE**  
Grading Systems

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**CAMOSUN COLLEGE**  
*School of Arts & Science*  
*Department*

***BIOL 232 Principles of Genetics***  
***Winter 2010 – Section 001***

**COURSE OUTLINE**

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**1. Course Information**

Course Description

The cellular and molecular basis of the transmission of hereditary characteristics. Topics include Mendelian inheritance and its cytological basis, actions of genes in biochemical pathways, microbial genetics, linkage and gene mapping, DNA as the genetic material, the genetic code, gene action in development and differentiation, and the fundamentals of genetic engineering. (T)

**Prerequisites:** BIOL 230.

**Pre or Corequisites:** CHEM 255.

Time and Location

**Lecture:** T,Th and Fri- 9:30-10:20 in F-206

**Lab: M** 1:30-4:20 in F222

**2. Instructor Information**

Instructor: Charles Molnar

Office hours: TBA

Office location: F 340B

Phone: 370-3449

e-mail: molnar@camosun.bc.ca

**3. Required Materials**

(a) Textbook: Booker Genetics Analysis and Principles. 3rd edition. McGraw Hill.

(b) **BIOL 232 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.

#### COURSE SCHEDULE BIOLOGY 232

Winter 2010

The schedule that follows is an attempt to outline the daily activities of the class. It is subject to change or modification as the need arises.

Week of	TEXT CH.	LECTURE AND DISCUSSION	WEEK	LAB #	LAB TOPICS
Jan.6	1 2	Course Introduction, Genetics an Introduction Mendelian Genetics	1		<b>No Lab</b>
Jan.11	2 3	Mendelian Genetics Mitosis, Meiosis	2		Safety, Problem solving; Intro to term project: plant seeds Mitosis/Meiosis Lab Fly practice Start of Linkage lab
Jan.18	3 4	Chromosomal Inheritance, Sex Linkage	3		Modification of Mendelian Ratios, Chi squared
Jan.25	4 5	Extensions of Mendelian Analysis	4		Sordaria Lab Linkage Lab Cont.
Feb.1	5 7	Genetic Mapping and Linkage analysis	5		Polytene Chromosomes Karyotype analysis
Feb.8	7 8	<b>MIDTERM I</b> Extrachromosomal inheritance Chromosomal Mutations	6		Field trip Cytogenetics lab At Vic general Hospital.
Feb.15	8	Chromosomal Mutations	7		<b>LAB EXAM I</b>
Feb.22	11,12, 13	Topics in DNA replication and gene expression	8		Complementation in Serratia and Yeast DNA sequencing visit to UVIC
Mar.1	16	Mutation	9		Complementation in Yeast Week 2 U.V. Mutagenesis Week 1
Mar.8	16 18	Mutation DNA technology	10		U.V. Mutagenesis Week 2
Mar.15	19	<b>MIDTERM II</b> DNA technology	11		Proteomics trip Student Presentations
Mar.22	20	Genomics	12		Proteomics lab trip Genomics-Computer lab Student presentations
Mar. 29	23	Genes and Development	13		<b>LAB exam 2</b>
Apr. 6	24	Population Genetics	14		No Lab

Feb. 18-19 Reading break: Feb. 9 Bursary deadline: April 2+5 are Holidays

March 10 Last day to Withdraw Exam Period April 12-17, 19-20 **Do not book flights!** Exam schedule out in Feb. Wait!!!!

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#### 5. Basis of Student Assessment

**Mark Distribution:** (Tentative)

<b>LECTURE</b>	
Midterm Exam 1	10%
Midterm Exam 2	10%
Final Exam	25%
Scrapbook	5%
Assignments/Quizzes/Lab assign.	10 %
	<b>60%</b>
<b>LABORATORY</b>	
Midterm test	10%
Second test	10%
Term Project/Presentation	<u>20%</u>
	<b>40%</b>

Midterms I and II, as well as the lab exams, will be unit exams.  
The final lecture exam will be cumulative.  
Please bring a pen *and* pencil to all exams.

#### 6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 90 - 100%	B = 73 - 76%	D = 50 - 59%
A = 85 - 89%	B- = 70 - 72%	F = 0 - 49%
A- = 80 - 84%	C+ = 65 - 69%	
B+ = 77 - 79%	C = 60 - 64%	

#### **ADDITIONAL INFORMATION**

##### **General:**

Be sure that you are familiar with the General Department Policies, which are stated in the lab manual. A student conduct code will also be observed.

#### **ACADEMIC 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](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html)

Please note: Plagiarism will not be tolerated in any form, and may result in "0".

No programmable devices are allowed in exams.  
Each student is required to sign a Laboratory Safety Contract and give it to the instructor prior to commencing laboratory work in the course.

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#### Attendance:

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

Missed exams or quizzes cannot be made up except in case of documented illness (doctor's note required). Lab attendance is *mandatory*.

**Do not book trips etc in April until the exam schedule is known.**

#### Labs:

A **1% final grade penalty** applies to any unexcused absence from lab. Frequent lates will count as an absence. Should you miss roll call at the beginning of lab, please identify yourself to the instructor as late or you may remain marked absent. Lab assignments can only be handed in for labs actually attended.

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. You should expect a short pre-lab quiz at the start of each lab. Questions are drawn from the labs to be done that day

#### Assignments:

Unless otherwise stated, all assignments are due at the *beginning* of the lab/class of the due date. There is a **10%/day late penalty**. The format is expected to be professional, i.e. a neat, legible, clean copy. "Rough" drafts risk rejection and a subsequent late penalty. If the assignment is more than one page, **separate pages must be stapled** before you come to class.

#### Study Habits:

You will probably find Biology 232 not very difficult or very tough, 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 a study guide, not as your sole source of information! You will need to write down additional key words for 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. Study these notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Due to time constraints, not all details can be covered in lecture, and you may be held responsible for textbook material not specifically discussed in class. 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.

### 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>