

**School of Arts & Science  
DEPT**

**Course Abbreviation, Number & Title  
Term & Year**

**COURSE OUTLINE**

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**The Approved Course Description is available on the web @ \_\_\_\_\_**

*Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for your records.*

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**1. Instructor Information**

- (a) Instructor Charles Molnar \_\_\_\_\_
- (b) Office hours M,T,W,Th 10:30-11:20 \_\_\_\_\_
- (c) Location Richmond House 302 \_\_\_\_\_
- (d) Phone 370-3449 \_\_\_\_\_ Alternative \_\_\_\_\_
- (e) E-mail molnar@camosun.bc.ca \_\_\_\_\_
- (f) Website \_\_\_\_\_

**2. Intended Learning Outcomes**

*(If any changes are made to this part, then the Approved Course Description must also be changed and sent through the approval process.)*

1. Students will obtain a sound basic understanding of the principles of Mendelian and molecular genetics.
2. Have a basic experience of the techniques of genetic analysis.
3. An ability to apply understanding of genetics to ethical issues relating to molecular genetics.
4. Be able to define and explain basic genetics terminology.
5. To use concepts learned to solve word problems.

**3. Required Materials**

(a) Texts

1. iGenetics Russell 1st Ed. Benjamin Cummings.

Other 2. Biology 232 Lab Manual. Available at the bookstore

#### 4. Course Content and Schedule

(Can include: Class hours, Lab hours, Out of Class Requirements and/or Dates for quizzes, exams, lecture, labs, seminars, practicums, etc.)

#### COURSE SCHEDULE BIOLOGY 232 Winter 2004

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.

DATE	TEXT CH.	LECTURE AND DISCUSSION	WEEK	LAB #	LAB TOPICS
Jan.5-10	1	Course Introduction, Genetics an Introduction	1		
Jan.12-17	10	Mendelian Genetics	2	1	Microscopes,Fly,Microbe handling,Safety,Problem solving Mitosis/Meiosis Rye Anthers
Jan.19-24	11	Chromosomal Inheritance, Sex Linkage	3	2	Modification of Mendelian Ratios, Chi squared,
Jan.28-31	12	Extensions of Mendelian Analysis	4	4	Field trip Cytogenetics lab ("Grand rounds")
Feb.3-7	13	Genetic Mapping	5	7	
Feb.10-12	21	Mitotic Recombination Chromosomal Mutations	6		No Lab Reading Break
Feb.17-21	21	Chromosomal Mutations	7		<b>LAB EXAM I</b>
Feb.24-28	7	DNA technology	8	8	Complementation in Serratia and Yeast
Mar.3-7	7/8 19	DNA technology Mutation	9	8	Complementation in Yeast Week 2 U.V. Mutagenesis Week 1
Mar.10-14	19	Mutation	10	6	U.V. Mutagenesis Week 2
Mar.17-21	9	Genomics	11		Genomics-Computer lab Held in _____
Mar.24-28	9 17	Genomics Genes and Development	12		Stressgen field trip
Mar.31-Apr 4	17	Genes and Development	13		
April 7-11	22	Population Genetics	14		No lab-

## 5. Basis of Student Assessment (Weighting)

*(Should be linked directly to learning outcomes.)*

- (a) Assignments 15%
  
- (b) Quizzes counted with assignments
  
- (c) Exams Lab exam 1 and 2 10% each: Mid terms 1 and 2 12.5% each.  
Final worth 30%
  
- (d) Other (e.g. Project, Attendance, Group Work) Term project worth 10%

## 6. Grading System

*(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)*

*(Insert appropriate approved grading system – see last page of this template.)*

The following percentage conversion to letter grade will be used:

A+ = 95 - 100%	B = 75 - 79%	D = 50 - 59%
A = 90 - 94%	B- = 70 - 74%	F = 0.0 - 49%
A- = 85 - 89%	C+ = 65 - 69%	
B+ = 80 - 84%	C = 60 - 64%	

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

### 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>

### 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)