CAMOSUN COLLEGE - CHEMISTRY & GEOSCIENCE DEPARTMENT

Chemistry 251 IMMUNOLOGY Winter Semester 2003

Class Outline

This course describes the basic concepts of immunology and the application of immunochemistry to molecular, medical, and veterinary biotechnology. Topics include antigens and antibodies, immune responses, vaccines, antibody diagnostics, immunosuppression, hypersensitivity, transplants, cancer, auto-immune diseases, immunodeficiencies including AIDS, and current immunological technologies.

Instructor Jamie Doran, Ph.D.

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Office Hours:	As posted on the door.

Course offering

Semester	Winter
Credits	4
In-class workload	3 h lecture; 3 h laboratory
Out-of-class workload	6 h
Prerequisites	Chem 120

Lecture times: Monday 11:30 to 12:30
Wednesday 11:30 to 12:30
Thursday 11:30 to 12:30

Laboratory time: Thursday 2:30 to 5:20 in F360

Textbook (Required)

Understanding Immunology. 2001 Edition. Au. Peter Wood, Prentice Hall, Harlow, Essex, UK.

Experimental protocols

These will be provided prior to each laboratory session. Biosafety information will be provided in advance of any laboratory work with bacterial cultures.

Safety glasses: Safety glasses are required when handling hazardous chemicals. The students are required to purchase their own pairs of glasses.

Lab coats: Lab coats are required for any experiments involving hazardous chemicals. Students are required to provide their own lab coats.

Latex gloves: Latex or similar gloves will be available in the lab and are to be used when appropriate to protect the skin from hazardous chemicals, and to protect valuable biochemicals from becoming contaminated with enzymes or other biomolecules from your skin.

Scientific calculator: Calculators may be required in the lab, in class or during exams. Students are required to provide their own calculators.

Course evaluation:

Midterm Exam #1 (90 min) 25 % Thursday, February 6th .

Midterm Exam #2 (90 min) 25 % Thursday, March 13th .

Final Exam (3 h) 50 % To be scheduled by the College.

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[The percentage values indicate the proportion of the final grade that is determined by each exam.]

Curriculum tested on the first midterm exam will not be part of the curriculum tested on the second midterm exam.

The final exam is a comprehensive exam.

Attendance at exams is mandatory. If an exam is missed due to illness or for another justifiable reason (submitted in writing), a 'make-up' exam will be scheduled or, in the case of a midterm exam, the value of that exam (25% of the total grade in the course) may be added to the value of the final exam.

Participation in laboratory experiments is **mandatory**. No laboratory experiment can be missed without an acceptable reason submitted in writing (e.g. a note from medical doctor). There are no laboratory reports to be handed in. However, students are responsible for understanding the principles, practical aspects and expected results of each experiment. These aspects of the laboratory work will be subject to examination on the midterm and final exams.

Grade scale

The percentage marks for the course will be converted to grades according to the School of Arts & Science scale:

A+	= 95% to 100%	B-	= 70% to 74%
A	= 90% to 94%	C+	= 65% to 69%
A-	= 85% to 89%	C	= 60% to 64%
B+	= 80% to 84%	D	= 50% to 59%
B	= 75% to 79%	F	= 0% to 49%