

MBIO 4010/4020 IMMUNOLOGY**January-April 2012.****Instructor:** Dr. Deborah Court**Office:** 301A Buller Bldg (in the back of Lab 301)**Phone / e-mail:** 474-8263 / dcourt@cc.umanitoba.ca**Web Site:** Angel <http://www.umanitoba.ca/angel>**Office Hours:** Mon 1:30-3:30 p.m. (otherwise stop by my office or make an appointment)**Laboratory Instructor:** Dr. L. Cameron 414B Buller

Textbooks: There is no required textbook, but two optional books are available at the Bookstore: Kuby Immunology (6th Ed, by Kindt, Goldsby and Osborne, W.H. Freeman & Co. publishers) and Immunology - A Short Course (5th Ed.) Benjamini, Coico and Sunshine

TOPICS (Chapters Based on Kuby Immunology)

1. Introduction/ Innate vs Acquired Immunity (Ch 1 and 3)
2. Antibodies as Tools (Ch 6)
3. Cells and Organs Involved in the Immune Response (Ch 2)
4. Antigens (Ch 4)
5. HIV and AIDS - brief overview from an immunological perspective (1 lecture, Ch 20 and review papers)
6. Immunoglobulins (Ch 4)
7. Immunoglobulin Genes (Ch 5)
8. T Cell Receptors - structure and genetics (Ch 9 and 10)
9. Major Histocompatibility Complex - MHC structure and genetics (Ch 8)
10. Cytokines (Ch 12)
11. B and T Cell Development and Activation (Ch 9 and 10)
12. Autoimmune disease – mechanisms and immunological approaches to treatment (1 lecture; Ch 16 and review papers)
13. Allergy (Ch 15 and review papers)

Guest lectures Dr. Julia Rempel (Immunology - Hepatitis C and Type 2 Diabetes); Dr. Neeloffer Mookherjee (Immunology - Proteomics/Systems Biology, Chronic Inflammation); Dr. Rodriguez-LeCompte (Animal Science – Avian Immunology)

Assessment for final grade in the course:

	4010	4020	Date
Laboratory	20%	n/a	
Assignment (4020)	n/a	10%	Tues., Feb. 21 (by 11:59 pm; on Angel)
Assignment (all)	5%	5%	Mon., Mar. 26 (by 11:59 pm; on Angel)
Short quiz (1/2 class)	7%	7%	Thurs., Feb. 9
Long Quiz (full class)	18%	28%	Thurs. Mar. 8
Final Exam	50%	50%	(set by Student Records Office)
(VW date – March 16)			

There are no deferred quizzes - if you miss a quiz, the marks will be added to the final exam.

Academic dishonesty Guidelines are stated in your calendar regarding University policy with respect to academic dishonesty (particularly plagiarism and cheating) and behaviour and absence from final exams. The Faculty of Science web page has detailed information (<http://umanitoba.ca/faculties/science/student/webdisciplinedocuments.html>). Please read and follow these guidelines, and ask if you have any questions.