

Part 1: Course Information

Instructor Information

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Course Description

Examination of the basic anatomy and organization of structures of the immune system, innate and adaptive immunity, immune response and modulation, immunopathology including cancer immunology.

Course Duration

May 1st 2013 – June 13th (6 weeks)

Prerequisite

By permission of the instructor

Textbook and Course Materials

Required Textbook

Basic Immunology: functions and disorders of the immune system; 4th edition, 2014. By Abul K. Abbas, Andrew H. Lichtman and Shiv Pillai.

This is a summary of the recommended textbook. It is easy to read, especially in the short time this course is being offered.

Recommended Textbook

Cellular and Molecular Immunology; 7th edition, 2011. By Abul K. Abbas, Andrew H. Lichtman and Shiv Pillai.

This is a more comprehensive textbook that will complement the required textbook that is a summary (almost lecture notes) of this.

Course Requirements

Internet connection
Access to *Desire 2 Learn (D2L)*

BIOL4610 SDE 2014: IMMUNOLOGY COURSE SYLLABUS

Course Structure

This course will be delivered entirely online through the course management system *Desire 2 Learn* delivery platform. You will need your user name and password information to login to the course from the *D2L home page* (<https://lakeheadu.desire2learn.com>)

In *Desire2Learn*, you will access online lessons, course materials, and any additional resources.

Technical Assistance

If you need technical assistance at any time during the course or to report a problem you can contact: mycourselink@lakeheadu.ca or CEDL office: cedl@lakeheadu.ca or Phone: (807) 346-7730.

Part 2: Course Objectives

Grant me to assume that non of you have taken immunology before. Because of this, the course is designed to introduce you to basic immunological concepts, primarily dealing with immune reactions to infectious agents. Thus, knowledge of basic immunology including innate immune mechanisms and adaptive mechanisms will be appreciated by the completion of this course. Additionally, the course touches on basic immunopathology specifically autoimmunity, cancer and transplant immunology, hypersensitivity reactions and immunodeficiency diseases. Challenge yourselves with basic immunology, and “study smart with student consult”.

Please enjoy immunology by challenging yourself!!!

**BIOL4610 SDE 2014: IMMUNOLOGY
COURSE SYLLABUS**

Part 3: Course Outline

Important Note: Refer to the course calendar for specific information. Activities and assignments will be explained in detail within each week's corresponding learning module as required. Pay attention to important dates and times. If you have any questions, please contact me.

WEEK	DATE	CHAPTERS
1	May 1-8	1. Introduction to the immune system 2. Innate immunity
2	May 9-15	3. Antigen capture and presentation to lymphocytes 4. Antigen recognition in the adaptive immune system
EXAM # 1	May 16th	1-4 MCQs
3	May 16-22	5. T cell-mediated immunity 6. Effector mechanisms of T cell-mediated immunity
4	May 23-29	7. Humoral immune response 8. Effector mechanisms of humoral immunity
EXAM # 2	May 30th	5-8 MCQs
5	May 30-June 5	9. Immunological tolerance and autoimmunity 10. Immune response against tumors and transplants
6	June 6-12	11. Hypersensitivity 12. Congenital and acquired immunodeficiencies
FINAL EXAM	June 13th	1-12 MCQs and short essays

Grading Policy

Graded Course Activities

Description	Percentage Points
Exam # 1	25%
Exam # 2	25%
Final Exam	50%
Total Points	100

Late Work Policy

A point will be deducted for each day of late exam submission unless otherwise arranged prior.

Viewing Grades

You will be notified when grades are ready to be viewed

Course Policies

Build Rapport

If you find that you have any trouble keeping up with assignments or other aspects of the course, make sure you let me know as soon as possible. As you will notice, building rapport and effective relationships is key to becoming an effective professional. Make sure that you are proactive in informing me when difficulties arise during the semester so that I can help you find a solution.

Welcome and have fun with immunology!!!