

THE UNIVERSITY OF LETHBRIDGE
FACULTY OF HEALTH SCIENCES
HLSC 2400 – The Biology of Infection, Infestation & Disease
Fall 2009

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Office hours: Tuesday and Thursday 9:30-10:30AM or by appointment

Meetings: Mondays (and Thursday, December 10th), 6:00 - 8:50 p.m. in AH175.

Course Description

While the great majority of micro-organisms are harmless and many are beneficial to animals and humans there are others that cause disease, suffering and death. Pathogenic micro-organisms and parasites represent a small part of the total microbial world but receive much attention because they represent a threat to human and animal survival and health. The emergence of new diseases and re-emergence of others that have plagued humankind for centuries not only threaten life but also have serious economic, ecological and social consequences

Synopsis of the Course

- Natural History of Disease and Germ Theory
- Structure of Micro-organism and how this relates to Pathogenicity
- Indigenous Microbiota and Symbiosis
- Pathogenicity and Virulence
- Stages of Infection, Parasitic Disease and Host Responses
- Host-Pathogen relationships and Disease Processes
- Pathogens, Parasites and Infectious Agents. To include selected diseases caused by: Bacteria, Virus, Fungi, Protozoa, Helminths, Prions

Course Textbook

1. Kayser, F.H., Bienz, K.A., Eckert, J., & Zinkernagel, R.M. (2005). *Medical microbiology*. Thieme.

Additional information can be accessed from the class website and:

2. www.textbookofbacteriology.net (courtesy of Dr. Todar, University of Wisconsin)
3. Public Health Images: <http://phil.cdc.gov/phil/home.asp>

Method of evaluation

Three exams to be held during class, under no circumstances will the weighting of these examinations be changed.

Notes: These dates are immutable with the exception of bereavement or illness, for which a medical note must be provided.

	Percentage	Date
1) Examination 1	40%	October 5, 2009
2) Examination 2	40%	November 16, 2009
3) Examination 3	20%	December 10, 2009

Grading Breakdown

The grading system for this course is consistent with that established in the Faculty of Health Sciences, effective May, 2002.

Letter	GPA	Percent	Letter	GPA	Percent
A+	4.0	95 - 100%	C+	2.3	71 - 74.9%
A	4.0	91 - 94.9%	C	2.0	67 - 70.9%
A-	3.7	87 - 90.9%	C-	1.7	63 - 66.9%
B+	3.3	83 - 86.9%	D+	1.3	59 - 62.9%
B	3.0	79 - 82.9%	D	1.0	55 - 58.9%
B-	2.7	75 - 78.9%	F	0	0 - 54.9%

Plagiarism Statement

The University of Lethbridge subscribes to Turnitin.com, a plagiarism detection service. Please be advised that student work submitted for credit in this course may be submitted to this system to verify its originality. Students must be able to submit both electronic and hard copy versions of their work upon request.

Accommodations for Students with a Disability

Reasonable accommodations are available for students who have a documented disability. If you have been diagnosed with a disability, there is no need to face the challenge of University without support. Please contact the Counselling Services/Students with Disabilities Resource Centre at 329-2766 <http://www.uleth.ca/ross/counselling/index.html> to set up an appointment. After registering with the Disabilities Resource Centre, your instructor will be notified by a formal letter of any accommodations you require. In addition, students are responsible for requesting accommodations from the instructor at least ***two weeks*** in advance of the evaluation date. The instructor and student are jointly responsible for arranging the resources needed for the evaluation process.

Classroom Etiquette

- Cellular telephones must be turned off while in class.
- Listening devices must be turned off in class, and earphones are not to be worn during lectures or exams.
- As a courtesy to your fellow students, do not chat during class, and arrive on time.
- If you know you must leave the room early to make an appointment, sit at the end of a row near a door and leave quietly.

Note that this course will follow University Academic Policy as outlined in the 2009-2010 calendar.