



DEPARTMENT of SCIENCE
COURSE OUTLINE – Fall 2018

MI1330 (A2/B2): Medical Microbiology for Health Care Professionals – 3 (3-0-0) 45 Hours for 15 Weeks

INSTRUCTOR: Dr. Sean Irwin, Ph.D. **PHONE:** (780) 539-2860
OFFICE: J224 **E-MAIL:** sirwin@gprc.ab.ca
OFFICE HOURS: Tues. and Thurs. 1 – 2:30 pm or by appointment

CALENDAR DESCRIPTION:

Introductory course in medical microbiology designed for students enrolled in health care related programs. This course begins with basic information on microorganisms (bacteria, viruses, fungi, parasites and prions), the immune system, infection control, transmission of infection, epidemiology, antimicrobials, disinfection and sterilization. The later part of the course concentrates on infectious diseases caused by pathogenic microorganisms.

Notes: Restricted to Nursing students.

PREREQUISITE(S)/COREQUISITE: Biology 30 and Chemistry 30 or equivalents.

REQUIRED TEXT/RESOURCE MATERIALS:

Totora, G.J. et al., Microbiology: An Introduction (13thed.), Pearson Education, Inc., San Francisco, CA, 2019.

DELIVERY MODE(S): Lectures: A2 - Wednesday and Friday 13:00 – 14:20 pm, J229
B2 - Monday 13:00 – 14:20 pm and Friday 11:30 – 12:50 pm, J201

COURSE OBJECTIVES:

1. To gain an understanding of microbe structure and function.
2. To gain a knowledge of human infectious diseases and how they are transmitted.
3. To gain an understanding of human infectious disease that will facilitate future work in the medical field.
4. To develop critical thinking skills with respect to infectious diseases of the human body.

LEARNING OUTCOMES:

Upon successful completion of this course a student will have a working knowledge of the biological basis of the infectious diseases of the human body.

TRANSFERABILITY:

Transfer: UA, UL, AU, AF, CU, KUC

“This course is part of the block transfer agreement with the University of Alberta in the Collaborative BScN Program. Admission to the fourth year of the Program and registration at the U of A will be contingent upon confirmation by the Faculty of Nursing that the first three years of the Program have been completed with satisfactory academic standing. For promotion to Year 4 at the U of A, a student is required to pass all previous courses and obtain a minimum cumulative GPA of 2.0 on a 4.0 point scale in the first three years of the program. If these conditions are met, the student will be granted a block transfer of work completed at GPRC to the U of A record.”

***Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferalberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

**** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability**

EVALUATIONS:

Midterm I -	25%	- In order to defer an exam due to
Midterm II -	35%	illness you will require a medical note.
Online Activities -	5%	
Winter Final Exam -	35%	

GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100	C+	2.3	67-69
A	4.0	85-89	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

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Week 1	Unit 1	Ch. 1: 2 - 11; 16 -19.
Week 2	Unit 2	Ch. 4: pgs. 73 –93; 94 –102 (Review).
	Unit 3	Ch. 5: pgs. 110-115 and 120-131.
Week 3	Unit 4	Ch. 6: pgs. 152-158; 165-168 and Ch. 7.
	Lab (Friday Sept. 21 st)	
Week 4	Unit 5	Ch. 8: pgs. 208 - 217; 221-223; 229 - 236.
	Unit 6	Ch. 13
Week 5	Catch up/Review	
	Midterm I (Friday Oct. 5 th)	
Week 6	Unit 7	Ch. 14
	Unit 8	Ch. 15.
Week 7	Unit 9	Ch. 16.
	Unit 10	Ch. 17
Week 8	Unit 11	Ch. 18: pgs. 500 - 503.
	Unit 12a	Ch. 20: pg. 559 - 573.
Week 9	Unit 12b	Ch. 20: pg. 574 – 577; 579 – 582.
Week 10	Catch up/Review	
	Midterm II (Friday Nov. 9 th)	
Week 11	Unit 13	Ch. 21
Week 12	Unit 14	Ch. 22
	Unit 15	Ch. 23
Week 13	Unit 16	Ch. 24
	Unit 17	Ch. 25
Week 14	Unit 18	Ch. 26
	Catch-up/ Review	
	Final Exam scheduled by the Registrar's office	

STUDENT RESPONSIBILITIES:

Students are responsible for the course material presented in lectures and assigned readings.

The College Policy on Students Rights and Responsibilities can be found at <https://www.gprc.ab.ca/about/administration/policies/>

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <https://www.gprc.ab.ca/about/administration/policies>

**Note: all Academic and Administrative policies are available on the same page.