

Grande Prairie Regional College  
Department of Science

Course Outline : MI1930  
Introductory Microbiology  
Fall 1993

**Course Description:**

The objective of this course is to gain an understanding of the biology and practical significance of micro-organisms. Topics discussed will include: micro-organisms in the ecosphere, infectious diseases, industrial processes and biotechnology.

**Instructor:** Sean Irwin  
Office: J223  
Phones: 539-2860 (Office)  
538-1278 (Home)

**Lab Instructor** Rick Scott  
Office: J121  
Phone: 539-2953

**Prerequisite:** Biology 30

**Required Text:** G.J. Tortora, B.R. Funke and C.L. Case, 1992,  
Microbiology: An Introduction, (4th ed.)  
Benjamin Cummings Publishing Co., Ca.

**Lab Manual:** MI1930 Lab Manual (1993), Biology  
Instructional Group, G.P.R.C.

**Lectures:** Place: J229  
Time: Tues. and Thurs. 11:00-12:20

**Labs:** L1/L2: Thur. 15:00-17:50  
Rm. J126

<b>Evaluation:</b>	Lab Reports	15%
	Mid-Term Exam	30%
	Final Lab Exam	15%
	Final Exam	40%

Students are advised to attend all lectures and labs as they will be responsible for all course material presented in the lectures and labs. Students must attend the lab and complete the lab exercise in order to receive credit for lab report. All assignments are to be handed in by the date specified. Late assignments will not be accepted.

**CLASS SCHEDULE MI1930**

Fall 1993 (Tentative)

<u>Lecture</u>	<u>Date</u>	<u>Topic</u>	<u>Text Ch.</u>
1	Sept 7	Intoduction	1
2	Sept 9	Biochemistry	2
3	Sept 14	Prokaryotes and eukaryotes	4
4	Sept 16	Bacterial structure\function	4
5	Sept 21	Microbial metabolism	5
6	Sept 23	Microbial metabolism	5
7	Sept 28	Microbial growth	6
8	Sept 30	Controlling growth	7
9	Oct 5	Microbial genetics	8
10	Oct 7	Microbial genetics	8
11	Oct 12	Biotechnology	9
12	Oct 14	Applied microbiology	28
13	Oct 19	Classification\bacteria	10,11
14	Oct 21	Fungi,Protozoa and Algae	12
15	Oct 26	Mid Term	
16	Oct 28	Multicellular parasites	12
17	Nov 2	Viruses	13
18	Nov 4	Microbial ecology	27
19	Nov 9	Microbial ecology	27
	Nov 11	Remembrance Day	1-28
20	Nov 16	Disease, epidemiology and pathogenicity	14,15
21	Nov 18	Host defences	16
22	Nov 23	Immunology	17
23	Nov 25	Immunology	17,18
24	Nov 30	Antimicrobials	20
25	Dec 2	Infectious diseases	21-23
26	Dec 7	Infectious diseases	24-26
27	Dec 9	Spare\plagues	

MI1930 LAB SCHEDULE

Fall 1993

	<u>Group A</u>	<u>Group B</u>
Exercise 1	Sept. 15	Sept. 22
Exercise 2	Sept. 29	Oct. 6
Exercise 3	Oct. 13	Oct. 20
Mid-term Exam	No Labs	Oct. 27
Exercise 4	Nov. 3	Nov. 10
Exercise 5	Nov. 17	Nov. 24
Final Lab Exam	Dec. 1	Dec. 1