MICROBIOLOGY 315

INTRODUCTORY MICROBIOLOGY

Course Outline

INSTRUCTOR: Phil. Johnson (office 539 2827, lab. 539 2953)

ASSIGNED TEXT: Brock, T.D., Smith, D.W. and Madigan, M.T. (1984)
Biology of Microorganisms (4th ed.)
Prentice Hall Inc., Englewood Cliffs, New Jersey.

Microbiology 315. Introductory Microbiology, Lab. Manual
Grande Prairie Regional College

PURPOSE OF COURSE: Introduction of students to basic principles of microbiology, including aspects of microbial ecology and medical and applied microbiology.
(3 hours lecture, 3 hours laboratory per week)

COURSE REQUIREMENTS AND EVALUATION:

Quizzes	10%
Term paper	15%
Lab. reports	10%
Mid-term exam	20%
Lab. final exam	15%
Final exam	30%

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Course Contents

week of:		topic	text chapter
Sept. 1		Introduction	1
8		Procaryotes	2
15		Eucaryotes	3
22		Bioenergetics	4
29	*	Nutrition and biosynthesis of heterotrophic organisms.	5
Oct. 6		Nutrition and biosynthesis of autotrophic organisms.	6
13		Synthesis regulation of micromolecules	9
20	*	Microbial ecology: Population growth and control	7
27		Microbial ecology: Environmental factors	8
Nov. 3		Microbial ecology: Microbes in ecosystems	13
10		Viruses	10
17 and 24	*	Microbial ecology - symbiosis Applied microbiology - parasitism Medical microbiology - epidemiology	14 15 17
Dec. 1		Immunology	16
8		Review	

* Short written quizzes will be given during the first class of these weeks. Questions will relate to the topics covered since the last quiz.