

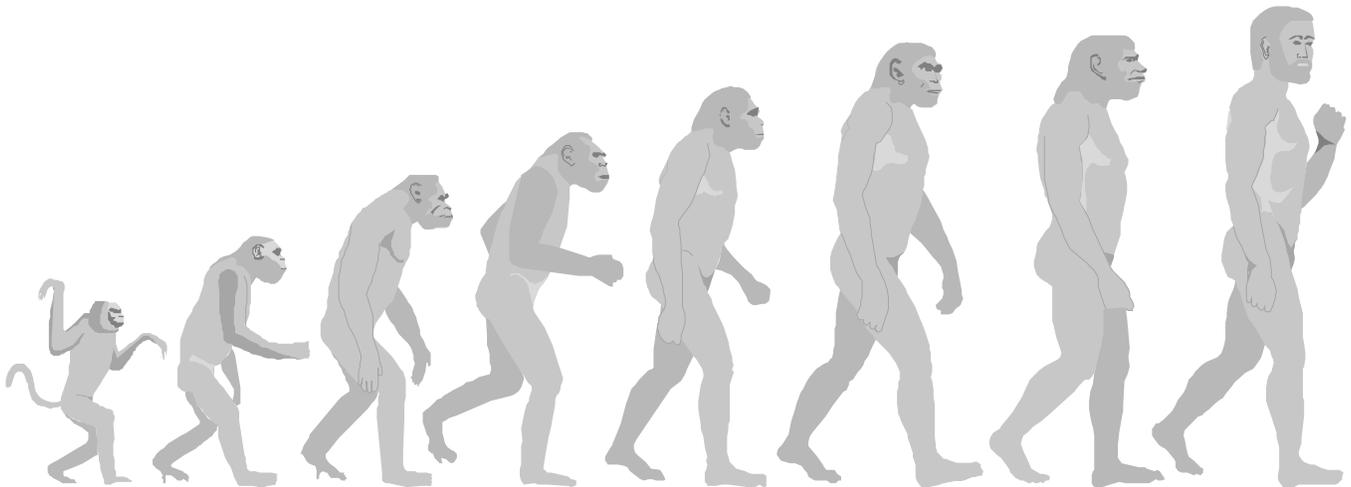
*BI 1050 Course Outline  
Fall 2003*

Dept. of Science & Technology  
Grande Prairie Regional College

Course Outline

BI 1050

The Organization and Diversity of Life



Instructor

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**BI 1050 Course Outline**  
**Fall 2003**

Course Description: A study of biological concepts and mechanisms illustrated by current examples of medical and environmental problems.

Equivalence: This course is equivalent to each of the following:  
BIOL 205 - University of Calgary  
BIOL 205 - Medicine Hat College  
BIOL 2205 - Mount Royal College  
BIOL 205 - Saint Mary's College

Each of the above courses transfer to the University of Alberta as BIOL 1xx

Pre-requisites: None

Note: BI 1050 is not open for credit to students whose Major or Minor is in the Biological Sciences.

Note: BI 1050 is not acceptable as a prerequisite for any of the second year courses in Biological Sciences.

Required Text: 'Biology: Concepts and Connections' (3<sup>rd</sup> Edition)  
Campbell, N.A., Mitchell, L.G. and Reece, J.B.  
Prentice Hall (2000)

Copies of the Powerpoint slideshows used in class will be available for download from the Bi 1050 site on WebCT.

Requirements: Since participation in lectures and completion of assignments are important components of this course, regular attendance at classes is advised. Those who chose not to attend must assume whatever risks are involved. In this regard, your attention is directed to the Academic Guidelines of Grande Prairie Regional College.

Evaluation:	Mid-term I	30%
	Mid-term II	30%
	Final Exam	40%

Mid-term I will examine you on material presented during the first four weeks of the course.

Mid-term II will examine you on material presented during Weeks 5-8 of the course.

The Final Examination is cumulative but will emphasize material presented since Mid-term II.

## TOPIC OUTLINE

<b>topic</b>	<b>text chapters</b>
Course Introduction, The Scientific Method	1
Taxonomy and Biodiversity	15.9 - 15.14, 16, 17, 18
Cell Theory	2
Biochemistry I - Macromolecules	3
Cell Biology	4, 5.10-5.11
Biochemistry II - Metabolism	5, 6
Cell Division	8
Inheritance and Human Genetics	9, 11
DNA Technology and Genetic Engineering	12, 32.16
Homeostasis and Organ Systems	20, 25
Skeletal and Muscular systems	30
Nutrition and Digestive systems	21
Gas Exchange and Respiratory systems	22
Circulatory systems	23
Nervous systems	28
Endocrine systems	26
Evolution by Natural Selection	13, 14, 15
Individual and Population Ecology, Predation, Competition and Mutualism	34, 35, 36.1 - 36.5
Community and Ecosystem Ecology	36.6 - 36.20