

F '98

**GRANDE PRAIRIE REGIONAL COLLEGE**  
**SCIENCE AND TECHNOLOGY DEPARTMENT**  
**BIOLOGY INSTRUCTIONAL GROUP**

**COURSE:** BIOLOGY 1080 - ORGANISMS IN THEIR ENVIRONMENT

**SECTIONS:** Two sections are offered each term.  
Each lecture section has one or two lab sections.

Lecture Section A2	MWF	- 1300-1350
Lab Sections	AL1 T	- 1500-1750
	AL2 F	- 1500-1750
Lecture Section B2	TR	- 1330-1450
Lab Sections	BL1 M	- 1500-1750

**TRANSFERABILITY:** U of A - Biology 108  
U of C - Jr. Biol.  
U of L - Biology 1020

**INSTRUCTORS:** Mr. Terry R. Shewchuk  
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**DESCRIPTION:** Biology 1080 is an introduction to how the diverse organisms on this planet have been affected by their environment and how the current environment is the product of the activities of organisms. The course also examines how evolution has operated over long time periods to produce major groups of organisms and how evolutionary origins are reflected in their classification. The principles that underlie our understanding of the major lineages will be discussed using examples from monera, fungi, protists, animals, and plants. A description of the involvement of organisms in major ecosystem processes leads to an evaluation of the stability of those systems and of human impact on the processes.

BIOLOGY 1080 - COURSE SYNOPSIS

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REQUIREMENTS:

A. Since presence at lectures and laboratories, participation in classroom discussion and projects, and the completion of assignments are important components of this course, students will serve their interests best by regular attendance. Those who choose not to attend must assume whatever risks are involved. In this connection, the attention of the students is directed to the Academic Guidelines of the College.

B. MidTerm Exam

C. One final Lecture Exam (Scheduled by the Registrar's Office during Term Exam Week)

D. Final Lab Exam

E. Occasional Lecture and Lab Quizzes and Reports

EVALUATION:

A. Lecture/Lab Quizzes	- 10%
B. MidTerm Exam	- 30%
C. Final Lab Exam	- 20%
D. Final Lecture Exam	- 30%
E. Lab Reports	- 10%

RESOURCES:

(NOTE: The textbook and study guide recommended for this course are also used in Biology 1070)

Campbell, N. A. 1996. Biology. (4th ed.). Benjamin/Cummings Publishing.

Taylor, M. R. 1996. Student Study Guide for Campbell's Biology. (4th ed.). Benjamin/Cummings Publishing.

(Note) Campbell's 3rd ed. may also be used.

Biology 1080 Laboratory Manual: 1997 - 1998. Department of Science and Technology, Biology Instructional Group, Grande Prairie Regional College, and Department of Biological Sciences, University of Alberta.

World Wide Web Biology 108 Home Page Address:  
<http://gause.biology.ualberta.ca/biol08.hp/biol08hp.html>

BIOLOGY 1080  
FALL 1998  
LECTURE SCHEDULE  
(Tentative Weekly Topics)

<u>Topics</u>	<u>Text*</u>
Introduction to BI 1080	
Phylogeny and Biological Classification	Ch. 1, 3, 23
Prokaryotes; Origin of Eukaryotes;	Ch. 24, 25, 26
Alternation of Generations; Protists	pp. 548, 228-9, 727-9 [pp. 560, 478, 249]*
Major Trends in Plant Evolution; Fungi	Ch. 26, 28
Photosynthesis; Bryophytes	Ch. 10, 27
Plant Tissue Systems; Seedless Vascular Plants	Ch. 31, 27
Gymnosperms; Angiosperms	Ch. 27; pp. 671, 727-742 [pp. 677, 734-740]*
Oct. 15 <i>MIDTERM EXAM - LECTURE SECTION B</i>	
Oct. 16 <i>MIDTERM EXAM - LECTURE SECTION A</i>	
Animal Protists; Metazoans	Ch. 26
Animal Development; Structure and Function; Invertebrates	Ch. 43, 36, 29
Invertebrates	Ch. 29
Vertebrates	Ch. 30
Ecology Introduction	Ch. 46
Populations; Communities	Ch. 47, 48
Ecosystems; Review	Ch. 49

Final Exam Scheduled by Registrar's Office

[\*Note: pp. in square brackets refer to Campbell 3rd ed.]