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GRANDE PRAIRIE REGIONAL COLLEGE

SCIENCE AND TECHNOLOGY DEPARTMENT  
BIOLOGY INSTRUCTIONAL GROUP

**COURSE:** BIOLOGY 2080 - PRINCIPLES OF ECOLOGY

**PREREQUISITES:** Zoology 1200 or Botany 1990 or Biology 1080.  
(NOTE: This course replaces Zoology 2310. Students may not obtain credit for Zoology 2310 and Biology 2080.)

**SECTIONS:** One section is offered. The Winter Session course is offered as a "normal" three hours lecture/three hours lab course.

**TRANSFERABILITY:** U of A - Biology 208  
U of C - Ecology 313  
U of L - Biology 2200

**INSTRUCTORS:** Mr. Terry Shewchuk                      Dr. Georgia Goth  
Office - J 221                                      Office - J 222  
539-2986 (Office)                                539-2863 (Office)  
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532-8091 (Home)

**DESCRIPTION:** Ecology is the scientific study of interactions between organisms and their environment in a hierarchy of levels of organization: individuals, populations, communities, and ecosystems. The course is designed to provide a comprehensive survey of ecological concepts that can stand alone or serve as preparation for advanced courses in ecology. Labs and field exercises emphasize the collection, analysis, and interpretation of data from ecological experiments and complement lecture and seminar material. Examples will be drawn from a broad range of organisms and systems.

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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. Lab Reports

E. Occasional Lecture and Lab Quizzes and Reports

EVALUATION:

A. Lecture/Lab Quizzes	- 10%
B. MidTerm Exam	- 20%
C. Lab Reports	- 40%
D. Final Lecture Exam	- 30%

RESOURCES:

Ambrose, H.W., and K.P. Ambrose. 1977. A Handbook of Biological Investigation. (4th ed.) Hunter.

Barbour, M.G., J.H. Burk, and W.D. Pitts. 1987. Terrestrial Plant Ecology. (2nd ed.) Benjamin/Cummings.

Brewer, R. 1994. The Science of Ecology. (2nd ed.) Saunders.

Kimmins, J.P. 1996. Forest Ecology: A Foundation for Sustainable Management. (2nd ed.) Prentice Hall.

Ricklefs, R.E. 1996. The Economy of Nature. (4th ed.) Freeman.

Smith, R.L. 1998. Elements of Ecology. (4th ed.). Harper Collins.

Biology 208 - Principles of Ecology, Laboratory Manual. 1995-1996. Department of Biological Sciences. University of Alberta.

Another Book! (Details later...)