

GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF SCIENCE & TECHNOLOGY

COURSE OUTLINE

BIOLOGY 2080 PRINCIPLES OF ECOLOGY 3 (3-0-3) UT

Instructors: **Classes and Laboratories:**
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Transferability: University of Alberta - Biology 208 (3)
University of Calgary - Sr. Biology (3)
University of Lethbridge - Biology 2200 (3)

Course Description:

Ecology is the scientific study of interactions between organisms and their environment in a hierarchy of levels of individuals, organizations, populations, communities, and ecosystems. This course is designed to provide a comprehensive survey of general concepts that can stand alone or serve as preparation for advanced courses in ecology. Labs emphasize the collection, analysis, interpretation and presentation of data from ecological experiments and field work in order to illustrate and complement lecture material. A broad range of organisms and systems will be discussed.

Requirements:

- Since presence at lectures, 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 Grande Prairie Regional College*.
- Students **must** attend and participate fully in all laboratories
- Mid-term exam(s)
- Final lecture exam scheduled by the Registrar's Office during term exam week
- Final lab exam
- Occasional lecture and/or lab quizzes and reports may be assigned

Evaluation:	Midterm Exam(s):	20%
	Labs: (Lab Instructor Assigned)	40%
	(This component may include lab reports and/or quizzes)	
	(There may be a Final Lab Exam and lab material <u>will</u> appear on the Final Exam)	
	Final Lecture Exam:	40%

Resources: Ambrose, H. W., and K P. Ambrose. 1998. A Handbook of Biological Investigation 5th ed. Hunter. Knoxville, Ky.

Gould, J. L., and G. F. Gould. 2002. Biostats Basics: A Student Handbook. Freeman, New York, NY.

Knisely, K. 2002. A Student Handbook for Writing in Biology. Sinaur, Sunderland, Mass.

Molles, M. C. 2005. Ecology: Concepts and Applications 3rd ed. . McGraw Hill, New York, NY.

Biology 2080 Lab Manual. GPRC & UofA. All laboratory materials will be supplied.