GRANDE PRAIRIE REGIONAL COLLEGE

SCIENCE DEPARTMENT

1988 - 1989

COURSE:
Biology 200 - Introductory Biology

INSTRUCTORS:
Paul Lemay, Course Coordinator
Office: D304 539-2984, 539-6330 Home: 532-3766

Joan Snyder
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C. Howes, Lab Technician
Lab F130 539-2953

NATURE OF COURSE:

Biology 200 is a perspective of Biology from the level of cells to the level of the relationships of organisms to their environment. The levels of organization that are explored include the cellular nature of living things; macromolecules and organelles; metabolism and reproduction; basic principles of inheritance; evolution, natural selection, and speciation; and the basic ecology of populations, communities, and ecosystems.

REQUIREMENTS:

A. All students are expected to attend lectures, all labs, and to submit lab reports or assignments as specified in advance.

B. There will be a mid-term exam.

C. There will be a final exam.

D. There will be a final lab exam.

E. There will be occasional lab quizzes.

EVALUATION:

A.	Laboratory reports and quizzes:	20%
B.	Mid-term exam	20%
C.	Final lab exam	20%
D.	Final exam	40%

TEXTBOOK/RESOURCES

Raven, Peter, G. Johnson. 1986, Biology, Times Mirror/Mosby College Publishing, St. Louis.

Stetler, David, A. Taylor, M. Gould Burke. 1986, Study Guide to Accompany Raven and Johnson - Biology. Times Mirror/Mosby college Publishing, St. Louis.

GENERAL LECTURE SCHEDULE:

A general lecture schedule is attached.

More detailed learning objectives will be distributed for certain sections.

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DEPARTMENT OF SCIENCE

BIOLOGY 200

INTRODUCTORY BIOLOGY

TEXTBOOK:

Raven, Peter, G. Johnson. BIOLOGY, Times Mirror/Mosby College Publishing

GENERAL COURSE TOPICS:

A. Introduction - 1 lecture

B. Biology of Cells - 7 weeks
   1. Cell Chemistry
   2. Prokaryotes and Eukaryotes
   3. Plant and Animal Cells
   4. Cell Movement
   5. Cell Communication
   6. Cellular Transport
   7. Cellular Energetics
   8. Cell Cycle and Cell Division
   9. Meiosis and Syngamy

C. Evolution - 2 weeks
   1. Pre-Darwin
   2. Darwin's Theory
   3. Synthetic Theory

D. Ecology - 3 weeks
   1. The Abiotic Environment
   2. Populations
   3. Communities
   4. Exosystems

E. Conclusion - 1 week
   1. Topics of Current Interest
   2. Review and Recapitulation