

WEST VIRGINIA UNIVERSITY AT PARKERSBURG
UNIFORM COURSE SYLLABUS

Name of Course: **General Biology II**

Course No. **Biology 102**

Department: **Biology**

Division: **Natural Sciences/Mathematics**

I. Course Objectives

- A. Identify the variety of tissues relative to the structure of organs and organ systems.
- B. Recognize and appreciate animal diversity.
- C. Demonstrate and relate the principles of anatomy and physiology of the ten vertebrate organ systems to that of invertebrates.
- D. Characterize and contrast the theories of the origin of life, its subsequent evolution and the mechanisms of natural selection.
- E. Enunciate ecological principles and create an understanding of ecosystems as they exist in the modern world.
- F. Recognize the morphological design & physiological significance of vascular & non-vascular plants.

II. Topics to Be Studied

- A. Animal Tissues, Organs and Organ Systems
- B. Skin, Muscles and Skeletal Systems
- C. Nervous Systems and Neural Control
- D. Sense Organs
- E. Acquiring and Processing Food
- F. Respiratory Gas Exchange
- G. Internal Transport, Circulation and Immunity
- H. Osmoregulation
- I. Endocrine Control
- J. Reproduction and Perpetuation of the Species of Animals
- K. Development of the Organism
- L. Natural Selection
- M. Origin, History and Diversity of Life
- N. Plant Anatomy
- O. Plant Hormones
- P. Reproduction in Flowering Plants

III. Special Projects to Be Included in Course

Research papers

Reports

Surveys

Annotated bibliographies

Other

None

IV. Methods of Student Evaluation

Tests (how many? how often? what type?)

Quizzes

Oral Presentations

Written Papers

Laboratory Activities

Clinical Experiences

- A. 3-5 objective and subjective hour examinations and a final two hour examination.
- B. Periodic announced and/or unannounced quizzes, variable in number.
- C. Short written assignments.

V. Assessment of Outcomes

**What measurements will be used to demonstrate that outcomes have been reached?
(Refers to class as a whole, not individual students.)**

- A. At least 75% of those students entering the course will complete the course with a passing grade.
- B. At least 80% of those students completing the course will do so with a letter grade of C or better.
- C. 90% of the elementary education students taking Science 301 (Instructional Strategies in Science) will complete the course with a C or better.
- D. 95% of the elementary education students will successfully pass the science content specialization exam.
- E. Of those students that take Biology 211 and/or 212 at least 80% will successfully complete the course(s) with a letter grade of C or better.

VI. Other Information

What additional information will help to clarify the course?

None