

**Southwestern Indian Polytechnic Institute
Liberal Arts Department**

**General Zoology
Syllabus**

1. Course Information:

Course Number: Biology 220

Course Title: General Zoology with Lab

Credit Hours: 4

Catalog Description:

Through systematic investigation of major animal groups, the student will apply structural, physiological, embryological, ecological characteristics, which exist in the field of zoology. The course will cover invertebrate and vertebrate representatives beginning at the microscopic level and advancing to the ecological realm. Laboratory work, which requires dissection, is an integral and required part of the course.

Prerequisite(s): BIOL 121 and CHEM 111

2. Course Learning Outcomes:

After a systematic study of course material the student should be able to:

- Unit 1 Describe the concept of animal classification and symmetry
- Unit 2 Describe prokaryotic and eukaryotic cells and their structures and functions including chemistry and cellular metabolic pathways for energy production for animals
- Unit 3 Describe systems and recognize organisms from Kingdom Protista, Phylum Porifera and Cnidaria
- Unit 4 Describe systems and recognize organisms from the Phylum Platyhelminthes, Nematoda and Annelida
- Unit 5 Describe systems and recognize organisms from the Phylum Mollusca, Echinodermata and Arthropoda
- Unit 6 Describe and recognize higher animals from Phylum Chordata
- Unit 7 Explain nerve and endocrine regulators of higher animals
- Unit 8 Explain the digestion, gas exchange, and temperature and circulation systems of higher animals.
- Unit 9 Explain reproduction, development and genetics of animals
- Unit 10 Describe ecology and behavior as it applies to the animal kingdom

The most important thing you can do while in class is take notes. Make sure that you note page numbers and diagrams that are brought to your attention during lecture.

3. Instructional Units:

1. Introduction to Animal Classification and Symmetry
2. Compare prokaryote and eukaryote cells and cellular functions
3. Kingdom Protista, Introduction to the Animal Kingdom
4. Phylum Porifera and Cnidaria
5. Phylum Platyhelminthes, Nematoda and Annelida
6. Phylum Mollusca, Echinodermata and Arthropoda
7. Phylum Chordata
8. Nervous systems and endocrine regulators of higher animals
9. Animal systems
10. Reproduction, development and genetics
11. Animal ecology and behavior

General Zoology Syllabus Fact Sheet

1. Course Information:

Course Number: Biology 220
Course Title: General Zoology with Lab
Credit Hours: 4

2. Course Instructor:

Instructor: Harold Kihega
Office Location: Science Technology Building, Room 252
Office Hours: Please check my office door for office schedule
Telephone Number: (505) 346-7729
Email: Hkihega@sipi.bia.edu

3. Course Specifics:

Textbooks: Integrated Principles of Zoology, Thirteenth Edition, Hickman, Roberts, Larson, I' Anson, Eisehhour; McGraw-Hill Publishing, 2006

Evaluations:

Six exams will be given during the semester. Each exam is worth 100 points, including the MIDTERM and a comprehensive FINAL counting as 200 points. All lab work including tests is worth 200 points. Homework assigned **must be completed to receive full course credit**. You are responsible for spelling correctly scientific words covered in lecture and laboratory. Each misspelled word is 1/2 point off your test score.

You must complete all work assigned and **attend** all labs to receive a grade at the end of the semester!!!!

There are no make-up exams in class or laboratory.

Quizzes:

There will be quizzes, usually announced. Quizzes are generally derived from homework assignments. The purpose of these quizzes is to encourage attendance and promptness to class and, therefore, **CANNOT BE MADE UP IF MISSED**.

Grading Policy:

Method of calculating grade:

A - 90 - 100

B - 80 - 89

C - 70 - 79

D - 60 - 69

F - 59 and under

A grade of “C” or better is required for passing General Zoology.
Examination Schedule: A minimum of 3 days notice will be given for exams

Exam #1: Units 1, 2 and 3
Exam #2: Units 4 and 5
Exam #3: Unit 6 and Midterm
Exam #4: Units 7 and 8
Exam #5: Units 9, 10 and 11
Final Exam (Comprehensive)

Two Lab Exams will be administered throughout the semester.

Homework is required for this course, your final grade will be lowered one letter grade for each homework assignment that is not completed.

Course Policies:

This course is comprised of textbook information as well as classroom notes. Students are expected to come to class prepared. It is imperative that you do the assigned homework. Attendance is important for success in this course and will be monitored closely. The class attendance system currently in effect at SIPI is used to indicate to students and their advisors of class status due to excessive absences. School sponsored activities will not count against the student if the instructor is notified before the absence. It is the student’s responsibility to get assignments completed prior to the absence. If there is a problem, you need to visit with the instructor before or after class. If tardiness or attendance becomes a problem, the instructor reserves the right to drop you from this course. Please turn off your cell phones prior to entering class or lab.

Accommodations for students with special needs:

Southwestern Indian Polytechnic Institute complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Students with disabilities who need accommodations should make their request by contacting the Disability Service Coordinator.