

**Southwestern Indian Polytechnic Institute  
Liberal Arts Department**

**General Biology  
Syllabus**

**1. Course Information:**

**Course Number:** Biology 121

**Course Title:** General Biology with Lab

**Credit Hours:** 4

**Catalog Description:**

An introduction to the fundamental concepts and principles of general biology. The course will cover basic morphological and physiological aspects of cells, tissues, organs, systems and living organisms. The course will progress from the cellular level to the population level of living organisms.

**Prerequisite(s):** English 100 and Math 100 with a C grade or better

**2. Course Learning Outcomes:**

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

- Unit 1 Describe the study of Biology and other related fields
- Unit 2 Identify and describe different cell types
- Unit 3 Describe Basic Chemistry and Biological Organics
- Unit 4 Describe Photosynthesis and Cellular Respiration
- Unit 5 Describe DNA/RNA and Protein Synthesis
- Unit 6 Compare and Contrast Mitosis/Meiosis
- Unit 7 Explain Genetics
- Unit 8 Describe Human Reproduction
- Unit 9 Explain the applications of Taxonomy
- Unit 10 Describe Plant and Animal Form and Function
- Unit 11 Describe Environmental Science/Ecology issues

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 the field of Biology
2. Compare Prokaryote and Eukaryote Cells and their structures
3. Basic Chemistry and Biological Organics
4. Cellular Respiration and Photosynthesis
5. DNA/RNA, Protein Synthesis
6. Mitosis and Meiosis
7. Genetics
8. Asexual and Sexual Reproduction of Living Organisms
9. Introduction to Taxonomy
10. Plant and Animal Form and Function
11. Introduction into Environmental Science and Ecology

# General Biology Syllabus Fact Sheet

## 1. Course Information:

**Course Number:** Biology 121  
**Course Title:** General Biology with Lab  
**Credit Hours:** 4

## 2. Course Instructor:

**Instructor:** Harold Kihoga  
**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:** Biology, Raven, Johnson, Losos, Singer Seventh Edition, McGraw-Hill publishing, 2005.

### 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 Biology.  
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.