

Master Syllabus: BIO 106

1. Course Information

College: College of Science and Mathematics
Department: Biological Sciences
Course Title: Introductory Biology: Biodiversity
Course Designation and Number: BIO 106
GE Area(s): Area V – Natural Sciences

Writing Intensive: Yes No

For WI Courses: All sections Selected Sections are WI.

Method(s) of Instruction: Lecture
 Discussion
 Web-enhanced
 Web-only
 Other

Includes Lab: Yes No
Three hours lecture, two hours lab.

Prerequisites: None

2. Objectives

GE Program Objectives:

- Sharpen critical thinking, problem solving and communication skills.
- Learn about the aesthetic, ethical, moral, social, and cultural dimensions of human experience needed for participation in the human community.
- Increase knowledge and understanding of the past, of the world in which we live, and of how both past and present have an impact on the future.

GE Area Five Objectives:

Area Five courses emphasize scientific inquiry as a way to discover the natural world, and to explore fundamental issues of science and technology in human society.

Course Objectives and GE Learning Outcomes:

Biological principles and processes applied to the origin, interaction, and extinction of species. Laboratory and lab topics include paleobiology, speciation, macroevolution, adaptive radiation, symbiosis, biogeography, and the scientific management of modern biological resources.

- Understand the experimental basis of scientific inquiry
- Understand the importance of model building for understanding the natural world
- Understand the theoretical, practical, creative and cultural dimensions of scientific inquiry
- Discuss some of the fundamental theories underlying modern science
- Understand the dynamic interaction between society and the scientific enterprise
- Recognize appropriate ethical uses of knowledge in the natural sciences

For WI Courses: WAC Objectives

- To improve students' writing proficiency – their ability to develop ideas and transmit information for an appropriate audience in an organized, coherent fashion while writing with appropriate style and correct grammar, usage, punctuation and spelling.
- To encourage students to use writing as a learning tool to explore and structure ideas, to articulate thoughts and questions, and to discover what they know and do not know, thereby empowering students to use writing as a tool of discovery, self-discipline, and thought.
- To demonstrate for students the ways in which writing is integral to all disciplines, essential to the learning and conveying of knowledge in all fields.

Two writing assignments totaling approximately 1500 words are submitted. The topics will be related to subjects covered in the course. Any paper receiving an 80% or below must be re-written and re-submitted.

3. Suggested Course Materials

Text: *Select Materials from Biology: Concepts & Applications 5e*

Lab: *Biodiversity laboratory Manual*

4. Suggested Methods of Evaluation

Three tests and the collection of homework and/or quizzes are recommended.

A cumulative final exam is required.

5. Grading Policy

All GE courses are graded A-F.

90-100% A

80-89% B

70-79% C

60-69% D

<60% F

WI component is graded Pass/Unsatisfactory.

6. Suggested Weekly Course Outline Including Typical Assignments

Week #	LECTURE TOPICS	READING ASSIGNMENT (Chapter)
1	Course Introduction & Microevolution	16
2	Speciation	17
3	Macroevolution	18
4	Origin & Evolution of Life	19
5	Biodiversity	25
6	Population Ecology	40
7	Social & Community Interactions	41 & 42
8	Ecosystems	43
9	Biosphere	44
10	Human Impact on the Biosphere	45

7. Other

Syllabus distributed to students should employ the format approved by UCAP and must include:

- Instructor name, office hours, and contact information
- Office of Disability Services information
- Information on how grades will be determined
- Attendance policy