

Course Outline

COURSE: BIO 2 **DIVISION:** 10 **ALSO LISTED AS:**

TERM EFFECTIVE: Fall 2019 **CURRICULUM APPROVAL DATE:** 10/8/2019

SHORT TITLE: ORGANISMAL BIOLOGY

LONG TITLE: Organismal Biology

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
5	18	Lecture:	3	54
		Lab:	6	108
		Other:	0	0
		Total:	9	162

COURSE DESCRIPTION:

This course is the second in a two-semester sequence exploring the basic biology and diversity of unicellular and multicellular organisms. Topics include general biological principles, classification, structure, function and evolutionary adaptations of organisms (including plants, fungi, animals, and unicellular organisms) to their environments. (C-ID: BIOL 140) **PREREQUISITE:** Bio 1 with a grade of 'C' or better. **ADVISORY:** Eligible for English 1A.

PREREQUISITES:

Completion of BIO 1, as UG, with a grade of C or better.

COREQUISITES:

CREDIT STATUS: C - Credit - Degree Non Applicable

GRADING MODES

L - Standard Letter Grade

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:

- 02 - Lecture and/or discussion
- 03 - Lecture/Laboratory
- 04 - Laboratory/Studio/Activity
- 04B - Laboratory - LEH 0.75

STUDENT LEARNING OUTCOMES:

1. Identify and describe key structures, functions, and characteristics of major animal and botanical taxa (protists, fungi, and green plants) and their phylogenetic relationships.

Measure of assessment: Assignments, quizzes, exams, discussion

2. Compare and contrast the differences in development and life cycles across the animal and botanical (protists, fungi, and green plants) phyla.

Measure of assessment: Assignments, quizzes, exams, discussion, report

3. Evaluate the evolutionary relationships of animal and botanical organisms to each other and their environments.

4. Apply scientific methodology and reasoning through active experimentation and experiences.

Measure of assessment: Assignments, quizzes, exams, discussion, report

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS

Curriculum Approval Date: 10/8/2019

Lecture Hours: 54.00 Lab Hours 108.00

METHODS OF INSTRUCTION:

Lecture and laboratory, with use of computer animations, video, PowerPoint presentations, and the Internet.

OUT OF CLASS ASSIGNMENTS:

Required Outside Hours: 40

Assignment Description: Homework, genetics problems, lab reports

METHODS OF EVALUATION:

Objective examinations

Percent of total grade: 60.00 %

Percentage range 60-80%; Multiple Choice, True/False, Fill-In, Free Response

Problem-solving assignments

Percent of total grade: 15.00 %

Percentage range 15-20%; Lab Reports, Quizzes

Writing assignments

Percent of total grade: 15.00 %

Percent range 15-20%; Lab Reports, Papers

Skill demonstrations

Percent of total grade: 2.00 %

REPRESENTATIVE TEXTBOOKS:

Lisa A. Urry, Michael L. Cain, Steven A. Wasserman. Campbell's Biology 11th ed.. Pearson,2017.

Campbell Biology is the standard bearer for introductory college-level biology for majors. This is also the required text for the first course in this sequence.

ISBN: 9780134093413

Reading Level of Text, Grade: 17 Verified by: D. Young

RECOMMENDED TEXTBOOKS

Stephen A. Miller. General Zoology Laboratory Manual, 7e, McGraw-Hill. 2013. ISBN 978-0077479299.

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

CSU B2, effective 201970

CSU B3, effective 201970

IGETC:

IGETC 5B, effective 201970

IGETC 5C, effective 201970

CSU TRANSFER:

Not Transferable

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: Y

Noncredit Category: Y

Cooperative Education: N

Program Status: 1 Program Applicable

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department: BIO

CSU Crosswalk Course Number: 31

Prior to College Level: Y

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: E

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000603154

Sports/Physical Education Course: N

Taxonomy of Program: 040100