COURSE INFORMATION FORM

DISCIPLINE  Biology
COURSE TITLE  General Biology for Majors I

CR.HR.   4   LECT HR.   3   LAB HR.   3   CLIN/INTERN HR.   CLOCK HR.   

CATALOG DESCRIPTION
Study of biological principles including; genetics, evolution, population, and ecosystems.

PREREQUISITES

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Apply principles of inheritance to sexually reproducing organisms.
2. Use genetic principles to explain the process of evolution.
3. Apply principles of population genetics to explain how and why groups of organisms change.
4. Describe nutrient cycling and energy flow in food webs.
5. Describe the interactions between living organisms and their environment.
6. Describe how knowledge is acquired and evaluated in science.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

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<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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<tr>
<td>1. Evaluate scientific evidence and argument. (6)</td>
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<td>2. Use the scientific method to develop and test hypotheses and to draw defensible conclusions. (6)</td>
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<td>3. Describe and apply current theoretical explanations of the nature, organization, and evolution of living systems. (1, 2, 3, 4)</td>
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<td>4. Explain how human choices affect the earth and living systems. (5)</td>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes may be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written exams. (1, 2, 3, 4, 5, 6)
2. Collection, analysis, and interpretation of data. (1, 2, 3)
3. Written paper using correct format and style for biological literature. (1, 2, 3, 4, 5, 6)
4. Reports or discussions of readings from current scientific literature. (4, 5)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Scientific Method
II. The Cell
III. Mitosis and Meiosis
IV. DNA
V. Inheritance and Mendelian Genetics
VI. Population Genetics and Evolution
VII. Natural Selection and Speciation
VIII. Population Ecology
IX. Community Ecology
X. Ecosystems
XI. Conservation Biology