Catalog description:

This course studies the diversity of living organisms, structure and function of plants and animals, ecology, and evolution. It is designed for non majors and serves as a laboratory science requirement for the core curriculum. Biology 1401 and 1403 may not both be taken for credit. Prerequisite: none. Fee. (Fall, Spring, Summer)

Context:

This course is an introductory lecture and laboratory course in biology, the study of living organisms. It is designed for lower division non-major students to meet the core requirement for a laboratory science course. This course may not be repeated for credit.

Course overview:

The purpose of the course is to familiarize students with the unifying principles of biology and the use of technology to gather and present data. This course provides the foundation for advanced studies in biology. The student will examine the origins and requirements of living organism and the diverse solutions that organisms employ to solve the problems of sustaining life. Evolution is the unifying theory in biology and will be the central theme of the study of biodiversity. The class will consist of active learning experience to illustrate the principles presented in the text so that students will have an active role in the learning process. Class time will be used to engage students in active learning and laboratory experiences.

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<tr>
<th>Course outcomes:</th>
<th>Assessment:</th>
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<tr>
<td>Upon completion of the course, students will be able to</td>
<td>The outcomes will be assessed by</td>
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<tr>
<td>Describe the forces of evolutionary change, the evidence of evolutionary change, the historical context and relationship of evolutionary theory to current problems of conservation biology.</td>
<td>Written examinations, quizzes, laboratory investigations and reports, and classroom discourse.</td>
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<tr>
<td>Describe characteristics of living systems, specialization and adaptation, and phylogenetic classification of biodiversity.</td>
<td>Written examinations, quizzes, laboratory investigations and reports, and classroom discourse.</td>
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<tr>
<td>Compare and describe the relationship of structure to function, and the unique solutions that individual taxonomic groups have evolved to solve the challenges of living within various habitats.</td>
<td>Written examinations, quizzes, laboratory investigations and reports, and classroom discourse.</td>
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<tr>
<td>Describe how organisms interact with their environment and the relationships of living systems to one another. Topics will include environmental factors, issues in population and community ecology, and human influence on the dynamics of ecosystems.</td>
<td>Written examinations, quizzes, laboratory investigations and reports, and classroom discourse.</td>
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<tr>
<td>Demonstrate basic laboratory skills to include: proper design of hypothesis driven experiments, observation, and analysis of experimental results.</td>
<td>Laboratory reports, written examinations, quizzes and classroom discourse.</td>
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Disability statement:

Disability Accommodations
The University of the Incarnate Word is committed to providing a supportive, challenging, diverse and integrated environment for all students. In accordance with Section 504 of the Rehabilitation Act – Subpart E and Title III of the Americans with Disabilities Act (ADA), the University ensures accessibility to its programs, services and activities for qualified students with documented disabilities.
For more information, contact the Student Disability Services Office:
**Location** Administration Building – Room 105
**Phone** (210) 829-3997
**Fax** (210) 829-6078
www.uiw.edu/sds

Policy on Academic Integrity:
The highest standards of academic honesty are expected in the course. Forms of academic dishonesty include, but are not limited to cheating, plagiarism, counterfeit work, falsification of academic record, unauthorized reuse of work, theft, collusion. See the student handbook for definitions and procedures for investigation of claims of academic dishonesty.

Tardies and Unexcused Absences
Refer to the Student Handbook for the UIW policy on tardies and excessive absences. Four absences (any combination of excused and unexcused) will result in a failing grade. Excessive tardies will result in a reduction of the final grade (loss of all or most points under “Participation”), and if the problem continues, a failing grade for the course. Three tardies equals one unexcused absence.

Cell Phones
Cell phones and other hand-held devices should be turned off during class, and should be kept inaccessible, such as in purses, pockets, or backpacks. No text messaging should be done during class. Under no circumstances should a cell phone be answered, if the student forgets to turn it off. It is not acceptable to walk out of class to take a call. If this occurs, the student will not be readmitted to class without a letter from the Dean stating that this will not happen again.

Approved: Fall 2011