Course Syllabus

Department: Environmental Conservation

Date: October 19, 2012

I. Course Prefix and Number: CON 102

Course Name: Introduction to Fish and Wildlife

Credit Hours and Contact Hours: 3 credit hours and 3 contact hours

Catalog Description including pre- and co-requisites: supporting data required for grade prerequisite of ‘C’ or higher.

The purpose of this course shall be to provide the student with a more complete understanding of mammalian and freshwater fisheries biology with emphasis on the ecology, identification and management of those species important to fish and wildlife managers in Western New York.

Relationship to Academic Programs and Curriculum including SUNY Gen Ed designation if applicable:

This course is required for all students enrolled in the A.A.S. Fish and Wildlife Technology A.A.S. Natural Resources Conservation, A.A.S. Natural Resources Conservation: Law Enforcement and A.S. Environmental Studies Degree Programs. This course may be taken by students enrolled in other programs as a general elective.

II. Course Student Learning Outcomes: State the student learning outcome(s) for the course (e.g. Student will be able to identify…)

Students will:

1. Use information on the natural history and management of fish and mammal species of New York State by completing a fish workbook and creating a written portfolio of first-hand encounters with mammals and mammal signs.
2. Be able to identify the more significant North American fish and mammal species.
3. Develop a learning guide to aid in fish identification.

College Learning Outcomes Addressed by the Course: (check each College Learning Outcome addressed by the Student Learning Outcomes)

☐ writing
☐ oral communications
☐ reading
☐ mathematics
☐ critical thinking
☐ computer literacy
☐ ethics/values
☐ citizenship
☐ global concerns
☐ information resources

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III. Assessment Measures (Summarize how the college and student learning outcomes will be assessed): For each identified outcome checked, please provide the specific assessment measure.

<table>
<thead>
<tr>
<th>List identified College Learning Outcomes(s)</th>
<th>Specific assessment measure(s)</th>
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</thead>
<tbody>
<tr>
<td>Reading</td>
<td>Students will complete a written portfolio assignment that requires the use and citation of reliable, college-level sources.</td>
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<tr>
<td>Information resources</td>
<td>Students will complete a written portfolio assignment that requires the location, use and citation of reliable, college-level sources.</td>
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<tr>
<td>Critical thinking/Problem Solving</td>
<td>Students will develop and implement a learning guide to aid in the identification of fish. Students will be allowed to use the guide on weekly visual quizzes to reinforce the process of identifying unknown fish</td>
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IV. Instructional Materials and Methods

Types of Course Materials:

Text books, fish workbook, handouts

Methods of Instruction (e.g. Lecture, Lab, Seminar ...):

Lecture, discussion

V. General Outline of Topics Covered:

1) What is a fish?
2) Evolution and classification of fishes
3) External anatomy of fish
4) Body form and function
5) Identifying fish:
6) Family and species characteristics
7) Reproduction strategy of fishes
8) Natural History of families
9) What is a mammal?
10) Classification of mammals
11) Feeding and locomotion strategies
12) Track and skull morphology
13) Identification, natural history and management issues for select mammal species