Course Syllabus

Department: Environmental Conservation

Date: November 26, 2012

I. Course Prefix and Number: CON 226

Course Name: Fisheries Field Assessment

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.

This course is an intensive one-week session that gives the student in-depth experiences in fish inventory methods and general vessel operation and maintenance. The majority of class time will be in the field, allowing the student to gain hands-on training in fisheries management techniques. The class is divided into five daily modules. The order in which the modules are taught are weather dependent; therefore, the starting and ending times will vary. Students should plan on being available from 6 a.m. to midnight each day. (Satisfactory or Unsatisfactory grade.)

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

This course may be used as an elective for any of the Conservation degrees or a general elective for other degrees.

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

Students will:

- Apply boating safety rules and navigational laws while operating vessels
- Demonstrate the ability to launch, load, operate and trailer a vessel
- Be able to rig and operate various nets used for fish capture
- Be able to safely operate electrofishing devices

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

☐ writing  ☐ computer literacy
☐ oral communications  ☑ ethics/values
☐ reading  ☑ citizenship
☐ mathematics  ☐ global concerns
☐ critical thinking  ☐ information resources
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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<tbody>
<tr>
<td>Ethics/Values</td>
<td>Students will capture and handle live organisms in accordance to accepted protocols</td>
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<tr>
<td>Citizenship</td>
<td>Students will use and manage a public resource (i.e. fish and habitat of the state of New York)</td>
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IV. Instructional Materials and Methods

Types of Course Materials:

- Handouts and field equipment

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

- Field experiences, hands-on work with equipment

V. General Outline of Topics Covered:

1) Boating Safety Rules
   - Navigational Law
   - Navigational Aids
   - Chart Interpretation
   - Launching and Landing Procedures

2) Stream assessment
   - Utilization of backpack electrofishing gear
   - Habitat measurements
   - Catch Rate Oriented Trout Stocking (CROTS)

3) Techniques for lake assessment
   - Angling opportunities
   - Passive capture devices (e.g. trap and gill nets)
   - Active capture devices (e.g. trawl nets)

4) Inland lake assessment
   - Managing private waterbodies
   - Boat electrofishing
   - Collect, identify and measure fish species

5) Great Lakes assessment
   - Boat electrofishing
   - Collect, identify and measure fish species