# Course Outcomes Form
# Northwest Indian College

**All hand-outs are posted on the faculty website at www.nwic.edu/faculty (follow the Assessment link)**

**Before completing this form, please refer to the *Instructions for Completing the Course Outcomes Form.* Please submit this form electronically to Shidon Aflatooni at saflatooni@nwic.edu.**

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| **Last date this form was updated or edited** | 13 July 2007 |
| **Course Number (e.g., ENGL 101)** | ENVS 481 |
| **Course Name (e.g., English Composition I)** | Ecophysiology: Earth Webs and Cycles |
| **List all instructor(s) who participated in creating and approved these course outcomes (please consult with at least one other person)** | John Rombold, Brian Compton |
| **List the main textbooks, readings or other resources used in this course (including title, year and publisher)** | Lambers, H., Chapin, F.S. III and T.L. Pons. Plant physiological ecology. Berlin: Springer-Verlag. ISBN 0-387-98326-0 |
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**A. NWIC outcomes:** From the *List of NWIC Outcomes*, select the *most* important outcomes you *assess* in this course (at least **one** NWIC outcome must be chosen- maximum of four).

| **NWIC outcome # (e.g., "Written communication: 2a. write Standard English")** | **Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)** | **Assessment/Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)** |
|---|---|---|
| Cultural: 1a. Students will demonstrate an understanding of a sense of place. | Weekly field exercises that examine the interrelationships between plants and their environment. | Written and oral presentation |
| Written Communication: 2a. Students will be able to write Standard English. | Written lab reports | Written lab reports |
| Written Communication: 2b. Students will be able to write in a variety of text forms using various credible sources. | Written lab reports<br>Research proposal<br>Research project | Written lab reports<br>Research paper |
| Quantitative Skills: 5b. Students will use analytical and critical thinking skills to draw and interpret conclusions. | Collection and analysis of field data<br>Written lab reports | Written lab reports<br>Research paper<br>Midterm and final exams |

**B. Course outcomes:** In order of priority, list the *most* important other learning outcomes for this course that you **assess** (a maximum of 10).

| **Other course outcomes: Complete the sentence –**<br>**As a result of this course, students will be able to…** | **Instructional Activities: How will students master this outcome? (e.g., solving problems, group activity)** | **Assessment / Evaluation Strategies: How will you measure this outcome? (e.g., student presentations, essays)** |
|---|---|---|
| Describe the interconnections between plants and features of their physical environment: soil, water, light, temperature and atmosphere. | Weekly field labs<br>Lecture<br>Research-based paper/model | Weekly field lab write-ups<br>Midterm and final exams<br>Research-based paper/model |
| Collect and analyze physiological data. | Weekly field labs<br>Lecture<br>Research-based paper/model | Weekly field lab write-ups<br>Research-based paper/model |
| Explain how adaptations of plant species are related to their roles in ecological communities. | Weekly field labs<br>Lecture<br>Research-based paper/model | Weekly field lab write-ups<br>Midterm and final exams<br>Research-based paper/model |
| Scale processes from individual leaves, to plants, to whole ecosystems. | Weekly field labs<br>Lecture<br>Research-based paper/model | Weekly field lab write-ups<br>Midterm and final exams<br>Research-based paper/model |
| Integrate concepts of math, meteorology, and plant biology to develop a dynamic model of water use by a native plant. | Weekly field labs<br>Lecture<br>Research-based paper/model | Weekly field lab write-ups<br>Research-based paper/model |

**C. Please list the NWIC outcomes and course outcomes from above on your syllabus.**

**D. Please assess the NWIC outcomes and course outcomes, which are listed above, in your classes.**