

## COURSE SLO ASSESSMENT REPORT, SCC

Department: Biology Course: 214

Year: 2012 Semester: Fall

1) Outcome to be assessed	2) Means of assessment and criteria of success	3) Summary of data collected	4) Analysis of data	5) Plan of action/what to do next
<p>Demonstrate a coherent understanding of the relationship between plant diversity, form and function, habitat, and life style.</p>	<p>3 multiple choice questions on the lecture exam. 65% correct expected for C question, 20% correct for B question and 10% correct for A question.</p>	<p>1. Which of the following is NOT an evolutionary trend in the vascular plants? A) Nutritional dependency of the gametophyte on the sporophyte B) Reduction in size of the gametophyte C) Reduction in complexity of the gametophyte D) Increased prominence of antheridia and archegonia E) Decreased reliance on water for transferring sperm to egg Fall 12 25/33 (75.8%)</p> <p>2. Which of the following pairs of structures is least likely to represent homology? A) The wings of a bat and the forelimbs of a human. B) The hemoglobin of a baboon and the hemoglobin of a gorilla. C) The mitochondria of a plant and that of an animal. D) The bark of a tree and the protective covering of a lobster. E) The brain of a frog and the brain of a cat. Fall 12 18/32 (56.3%)</p> <p>3. A botanist discovers a new species of plant in a tropical rain forest. After observing its anatomy and life cycle, the following characteristics are noted: flagellated sperm, xylem with tracheids, separate gametophyte and sporophyte generations, and no seeds. This plant is probably most closely related to A) mosses. B) a species from the phylum Charophyceae. C) ferns. D) liverworts. E) flowering plants. Fall 12 28/33 (84.8%)</p>	<p>What I thought was an easy question, a medium-difficulty question, and a hard question, it looks like all three of the questions were about the same difficulty. The middle question is from the final exam while the other 2 are from the second exam. Maybe the higher score on question 2 comes from relearning the material for the comprehensive final.</p>	<p>The results from this year are about the same as the results from 2 years ago. Questions 1 and 3 appear to be decent but question 2 may be ambiguous or I am not relaying the material as well as I should. I may go over my lecture notes again and see if I can alter the way I am explaining certain topics.</p>