

COURSE SLO ASSESSMENT REPORT, SCC

Department: **Biology** Course: **259**

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>Express a fundamental comprehension of ecological principles by citing examples.</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. Consider the life of the praying mantis. The large predatory female lays several hundred eggs in a foam mass in the fall. The young are most vulnerable when they emerge in the spring, but the few that survive spread out over the countryside and, if they find a mate, lay eggs the following fall. Which type of survivorship curve does this represent? A) type I B) type II C) type III D) exponential growth followed by a decline from resource depletion E) maximal exponential growth and minimal use of carrying capacity Fall 12 18/30 (60%)</p> <p>2. Which of the following is the <u>least</u> likely outcome of a host-parasite interaction? A) The host population evolves to become more susceptible to the parasite. B) The parasite population evolves better means of avoiding host defenses. C) The parasitism evolves into mutualism. D) The host population evolves stronger defenses against the parasite. Fall 12 11/29 (38%)</p> <p>3. In a predator-prey cycle A) a decline in the numbers of predators causes a decline in the number of prey. B) a decline in the numbers of prey causes a decline in the number of predators C) an increase in the number of predators triggers an increase in the number of prey. D) All of the choices are correct, causing an up-and-down cycle for each animal. E) None of the choices are correct since this is a seasonal die-off that would occur without the other species present. Fall 12 26/29 (90%)</p>	<p>Question #1 had an increase of 12% from the last assessment, question #2 had an increase of 7% from the last assessment and question #3 had an increase of 35% since the last assessment.</p>	<p>Since I have had an increase in the percentage of correct answers I will keep the same questions for the next assessment and see if they remain the same, increase again, or decrease.</p>