

COURSE SLO ASSESSMENT REPORT, SCC

Department: Biology Course: Biology 211 Cellular & Molecular Biology
 Year: 2009 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
Express a coherent understanding of fundamental biological concepts that include cell structure, energy, cell reproduction, and genetics.	A series of questions will be embedded in the final exam. The questions are ranked according to degree of difficulty with the expectation that the 10% of the students will correctly answer the "A" question (reflecting the typical "A" student), 20% will answer the "B" question correctly, and 68% will answer the "C" question correctly.	Category Genetics A question	Question A man who is an achondroplastic dwarf with normal vision marries a color-blind woman of normal height. The man's father was six feet tall, and both the woman's parents were of average height. Achondroplastic dwarfism is autosomal dominant, and red-green color blindness is X-linked recessive. How many of their daughters might be expected to be color-blind dwarfs? A) 100% B) 0% C) 50% D) 25% E) 75%	Data Total # responses 54 # correct responses 20 % correct responses 83%	Some of the data is surprising. More students are comprehending the "A" and "B" questions than the "C" questions. A and B questions have satisfactory pass rates but not the C questions.	Need to spend more time on the basic fundamental rules and definitions? I will revisit some of these concepts for the next time I teach this.
		B question	In cats, black fur color is caused by an X-linked allele; the other allele at this locus causes orange color. The heterozygote is tortoiseshell. What kinds of offspring would you expect from the cross of a black female and an orange male? A) Tortoiseshell females; tortoiseshell males B) Black females; orange males C) Orange females; orange males D) Tortoiseshell females; black males E) Orange females; black males	Total # responses 54 # correct responses 6 % correct responses 11%		