

Rubric for Learning Outcome #1: Comprehension of Evolution and Integrative Biology

Topic and Subtopics	Unacceptable (1)	Marginal (2)*	Adequate (3)	Good (4)*	Excellent (5)
Evolution					
General Concept of Evolution	Student fails to describe macro- and micro evolution. Student cannot provide description of any of the components of evolution.		Student's explanation of macroevolution and microevolution adequately includes 3 of the required components.		Student can fully explain macro- and micro-evolution including the following components: <ul style="list-style-type: none"> - Distinction between the levels of evolution. - Mechanisms and processes. - Speciation. - Link between evolutionary processes and the diversity of life. - Evidence that supports the theories.
Natural Selection	Student fails to describe any of the components of natural selection.		Explanation of natural selection adequately includes 3 of the required components.		Student can fully explain natural selection including the following components: <ul style="list-style-type: none"> - Selection pressures. - Genetic variation and sources of. - Differential survival and reproduction. - Heredity of favored traits. - Changes in population over time. - Evidence that supports the theory.
Integrative Biology					
Levels of Organization	Student fails to identify or describe the key levels of biological organization.		Student's identification of levels of organization is merely adequate and lacks description of each.		Student identifies and describes general characteristics of all key levels of biological organization, from sub-cellular to ecosystem.
Integrative Nature of Biology	Student fails to describe or give examples of the integrative nature of organisms.		Student's description of integrative nature of organisms lacks detail or clarity. Neglects to provide clear examples.		Student clearly and fully articulates the integrative nature of biological organisms. Student can provide examples of how organisms are interconnected.
* Level 2 indicates achievement of some characteristics of Levels 1 and 3. Level 4 indicates achievement of some characteristics of Levels 3 and 5.					

Evaluator's Notes: