ASSESSMENT CRITERIA

Insufficient Evidence	Basic	Intermediate	Advanced
		th • C th • A th • E: di	ummarize biological concepts, neories, structures, and processes. compare biological concepts, neories, structures, and processes. pply biological concepts and neories to new situations. xplain the relationships between ifferent parts of a complex tructure or process.

Insufficient Evidence	Basic	Intermediate	Advance
		flov rep • Exp diff mo • Ref con • Con rep • Eva	nstruct and interpret diagrams, w charts, equations, and other resentations. blain the relationships between ferent parts represented within a del. fine a model to better represent icept or data set. mpare different models resenting similar concepts. aluate the benefits and rtcomings of a model.
<u> </u>		ch using appropriate laborato	· · · ·
Insufficient Evidence	Basic	Intermediate	Advance
		and • Cor mu hyp • Des inv data stat • Jus neg exp • Use des • Use tecl pro • Eva	the informed testable questions a ethical questions. Instruct null hypotheses and liple competing alternative botheses. Sign scientifically valid estigations to yield quantitative a that are appropriate for istical analyses. tify the selection of positive or gative controls and other perimental decisions. e appropriate terminology to cribe variables and groups. e appropriate laboratory nniques, equipment, and safety tocols. aluate the potential for perimental errors.

ASSESSMENT CRITERIA

Skill 4. Graph and analyze data to determine meaningful patterns.			
Insufficient Evidence	Basic	Intermediate	Advanced
		graphs. • Select and just type of graph	bropriate tables and stify the appropriate for a data set. relationship between

Insufficient Evidence	Basic	Intermediate	Advanced
		median and rati • Solve p equatio • Constru- represe: • Perforn test. • Estimat answer • Explain represe:	roblems using formulas and

Insufficient Evidence	Basic	Intermediate	Advanced
		eviden • Explair contrac • Descri compa conclu	n how evidence supports or licts a claim. be the appropriate data rison needed to reach a valid
		change ecosys	in a cell, organism, or

How to assess mastery le Insufficient Evidence	Basic	Intermediate	Advance
Need more evidence of proficiency in the skill.	Work achieves some advanced criteria with major errors or achieves all criteria with significant assistance.	Work mostly achieves advanced criteria, but with some conceptual or procedural errors.	Work fully and consistently meets all criteria in this column.

WORK HABIT SELF-ASSESSMENT RUBRIC

Skill 7. Communicate and collaborate with members of a laboratory team.		
• Not share ideas or solutions.	• Share new ideas and possible solutions.	
• Not acknowledge peer contributions.	 Listen and respond to peer contributions. 	
• Not provide feedback on peer work.	 Share positive feedback on and suggestions for refining peer work. 	
• Not consider feelings of others.	• Ensure that all members of the group feel listened to, supported, and appreciated.	

Skill 8. Use course resources to self-direct learning and assess areas for improvement and for celebration.

• Regularly miss class, arrive late, or spent time on phone or with hall pass.	• Regularly attend class on time and spend most of class focused.
• Not complete assigned work.	 Complete all assigned work on time.
• Wait for others to point out areas for improvement and for celebration.	• Self-assess areas for improvement and for celebration.
• Not practice with concepts or skills outside of class.	 Regularly practice explaining concepts and applying skills outside of class.
 Not seek feedback nor learn from mistakes. 	 Seek opportunities for feedback from peers and instructor, and learn from mistakes.