

SLO1 – Part 1: How well does your lab partner overcome technical problems?

1	2	3	4
Little or no effort to understand instrumentation	Tries solution; partially solves technical issues	Resolves technical issues through a variety of methods	Resolves technical issues and assists others

SLO1 – Part 2: Is your lab partner able to correct flawed experimental designs?

1	2	3	4
Little or no effort to correct flaws	Only partially successful	Seeks and implements feedback to improve design	Independently improves design; anticipates problems

SLO1 – Part 3: Is your lab partner able to solve scientific problems?

1	2	3	4
Not able to devise a functioning plan to solve problems	Can answer basic questions about the problem but no deep understanding	Understands problem, proposes one solution	Deep understanding of problem; proposes possible solutions

SLO2: Is your lab partner able to recognize and analyze patterns among data?

1	2	3	4
Little or no recognition of patterns in data	Recognizes that patterns exist but can not analyze them	Recognizes patterns and sees some relationships among data	Able to see multiple relationships among data; good at multivariate analysis

SLO3 – Part 1 & 2: How well does your lab partner critically evaluate experiments and recognize limitations in experimental designs and methods?

1	2	3	4
Little or no recognition of flaws in experimental design; accepts all literature as truth	Sees minor flaws but generally does not recognize those that are critical from those that are not	Sees flaws and can sometimes discriminate between those that are critical and those that are not	Sees flaws; always discriminates between critical and non-critical, and can propose alternate experiments

SLO3 – Part 3: Is your lab partner able to draw reasoned conclusions from data?

1	2	3	4
Few or no reasons presented for patterns in data	Reasons offered for patterns in data defensible but simplistic	Reasons offered for patterns in data are thorough and accurate	Reasons offered for patterns in data are thorough and accurate; proposes multiple or alternate reasons

SLO4 – Part 1: Please rate your lab partner's computerized data acquisition skills.

1	2	3	4
Little or no understanding of equipment and/or neglects to follow instructions	Follows manual and collects data but unable to troubleshoot if something goes wrong	Creates custom settings, calibrations, interpretations	Manipulates hardware and software with facility; assists others

SLO4 – Part 2: Please rate your lab partner's web-based dissemination skills.

1	2	3	4
Understands functions of internet but unable to make a simple web page	Can generate simple web page	Can prepare a lab report in web format with data & images and load to web	Can create an interactive web site with active links, downloads, etc.

SLO5 – Part 1: How well does your lab partner interpret physiological studies?

1	2	3	4
Little or no knowledge of basic concepts of physiology	Has basic knowledge of concepts of physiology	Demonstrates solid understanding of basic concepts and can analyze concepts accurately	Demonstrates mastery of concepts and can integrate individual concepts to make appropriate connections

SLO5 – Part 2: How well is your lab partner able to draw parallels between animal and plant physiology?

1

Little or no recognition that connections exist

2

Recognizes only those commonalities that are explicitly pointed out

3

Is able to recognize obvious and simple commonalities but not others

4

Recognizes commonalities and is able to discriminate between adaptations that plants and animals hold in common and those that they do not