



BIOS 10140 14 - Inquiry-based Exploration of Biology - Instructor(s): Carolyn Martineau

Project Title: **College Course Feedback - Winter 2024**

Number Enrolled: **26**

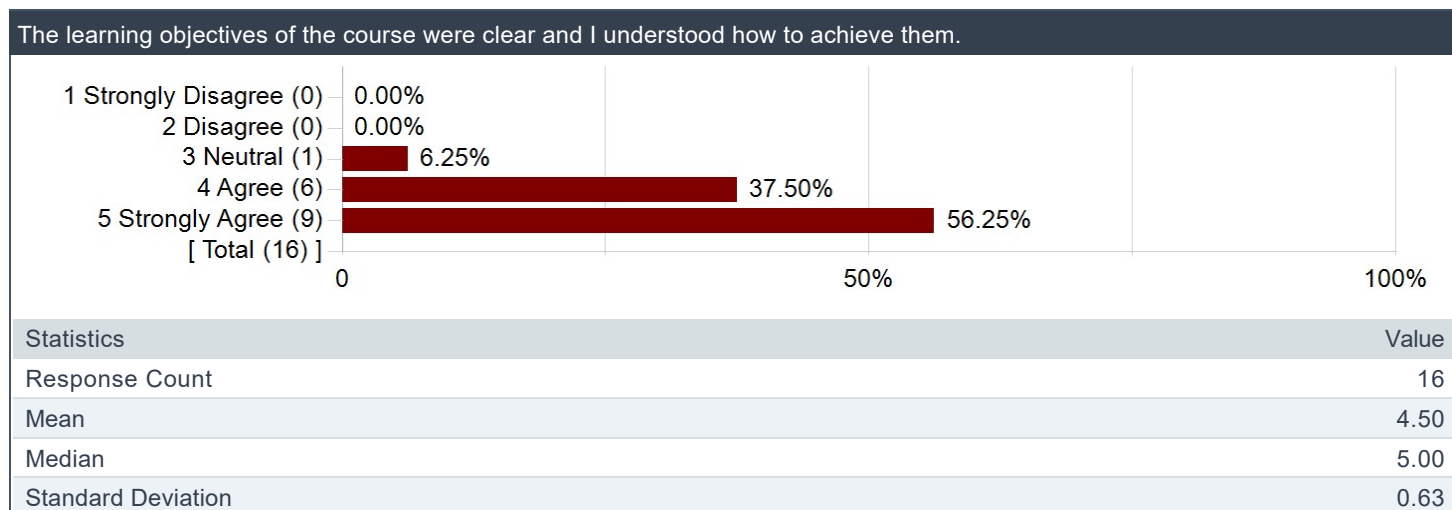
Number of Responses: **19**

Report Comments

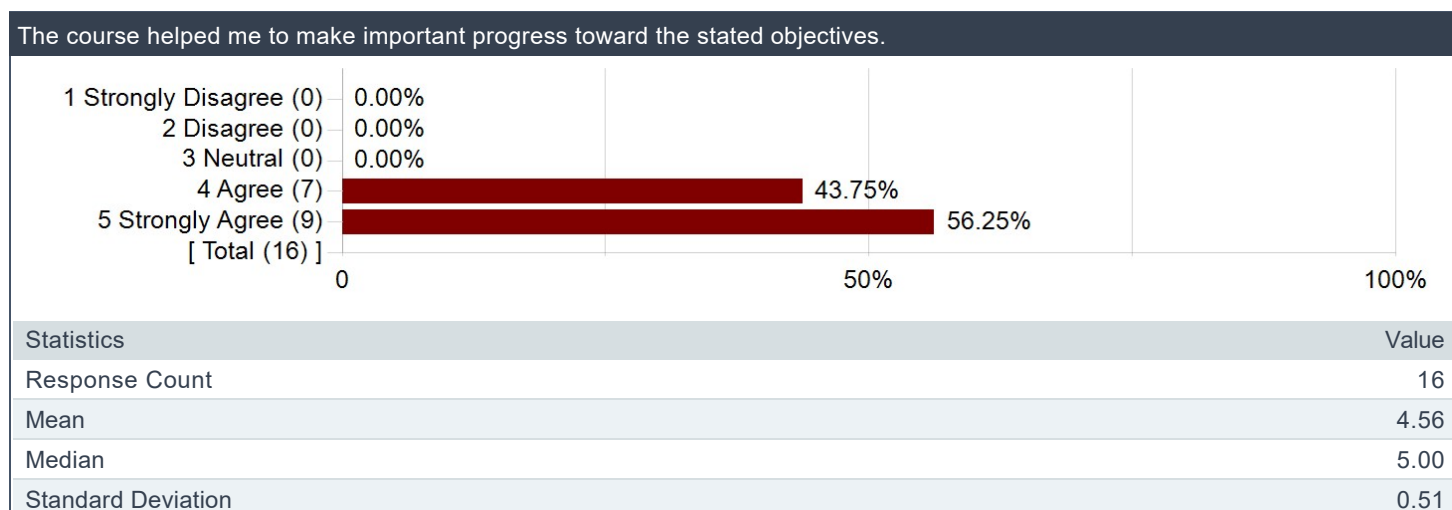
Opinions expressed in these evaluations are those of students enrolled in the specific course and do not represent the University.

Creation Date: **Thursday, March 28, 2024**

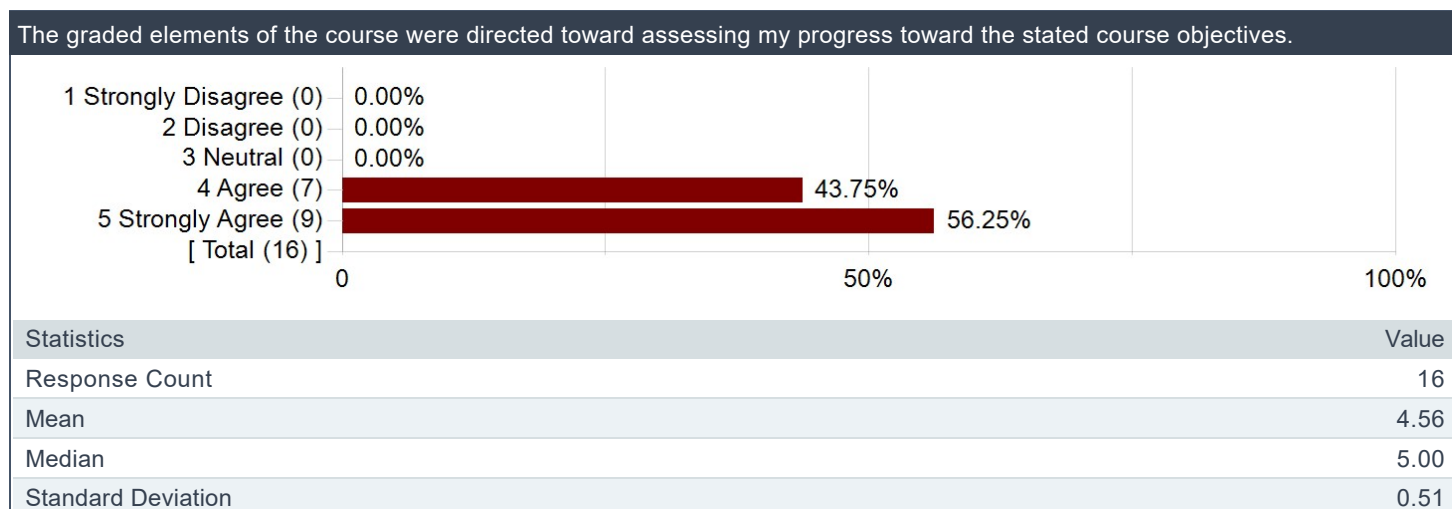
The learning objectives of the course were clear and I understood how to achieve them.



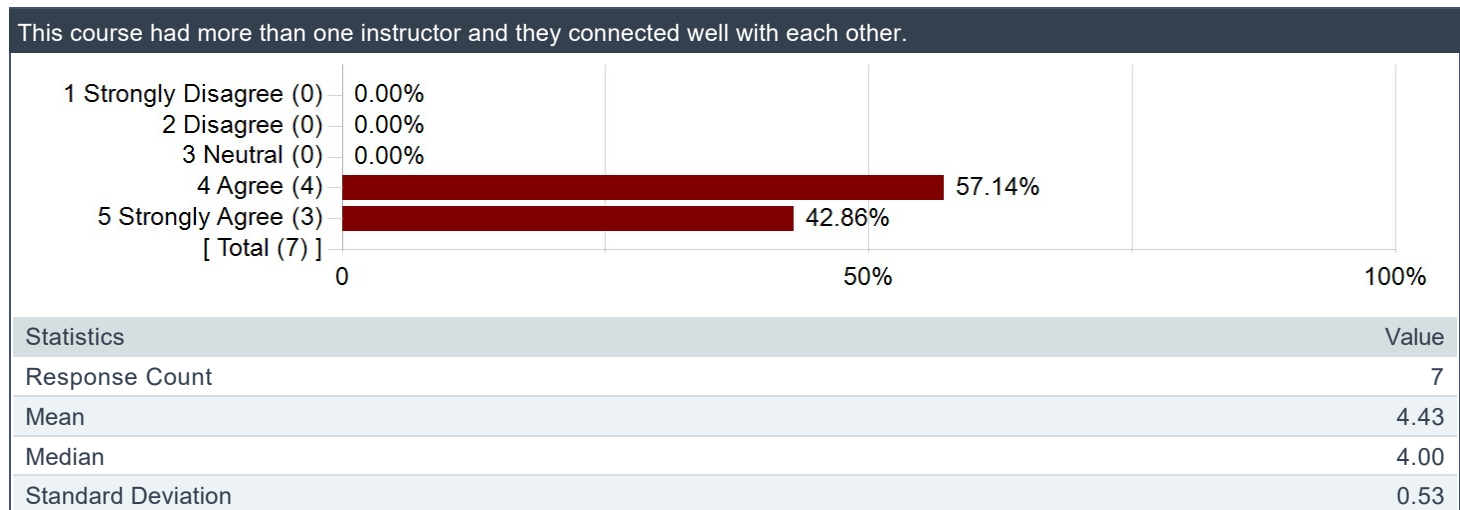
The course helped me to make important progress toward the stated objectives.



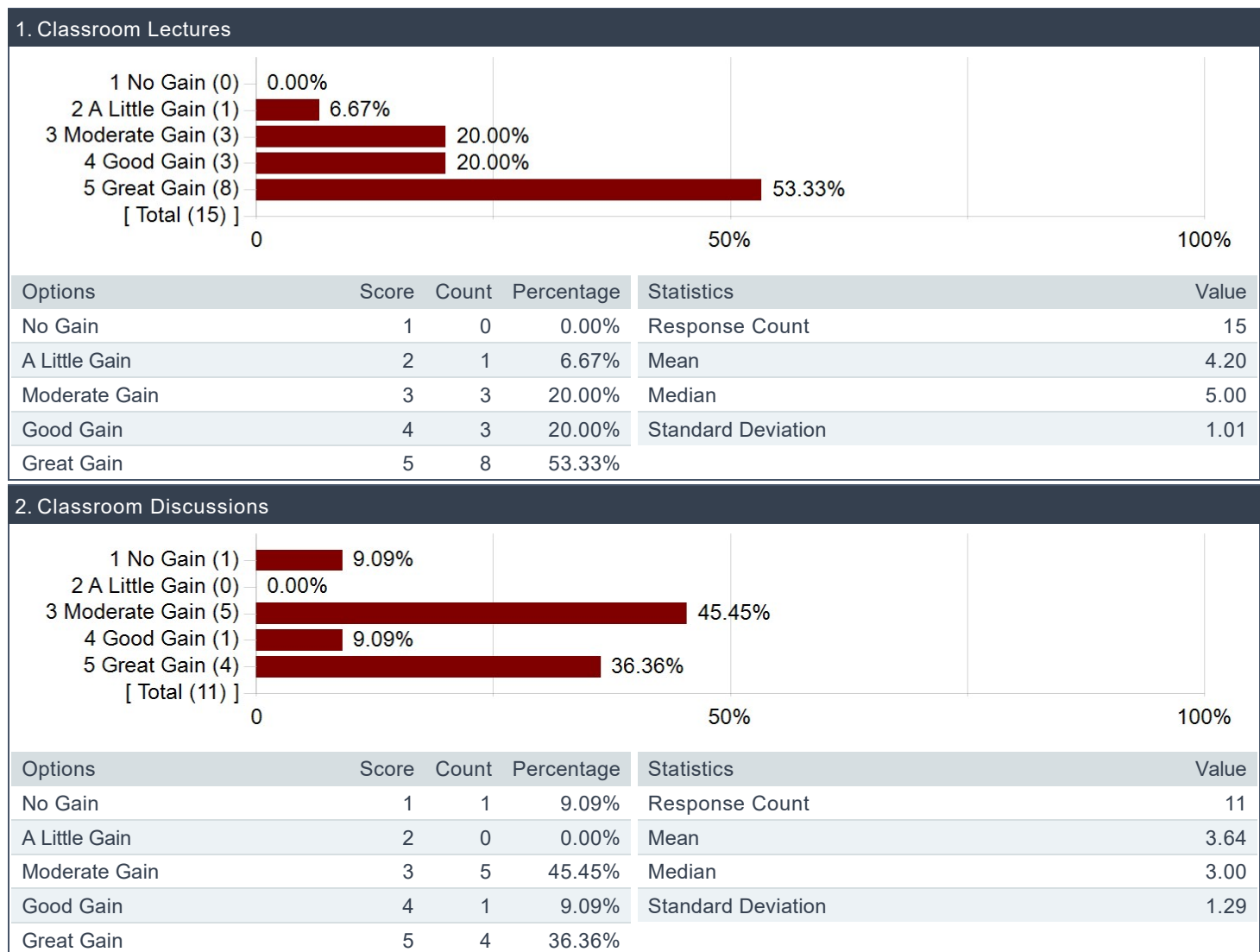
The graded elements of the course were directed toward assessing my progress toward the stated course objectives.



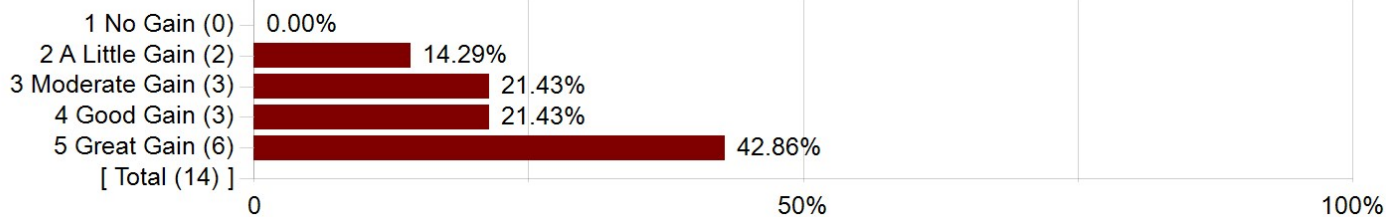
This course had more than one instructor and they connected well with each other.



How much did the following elements of the course contribute to your learning gains?

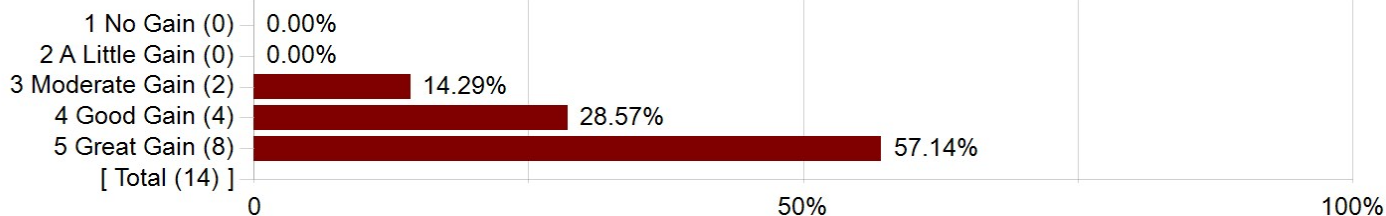


3. Assigned Readings



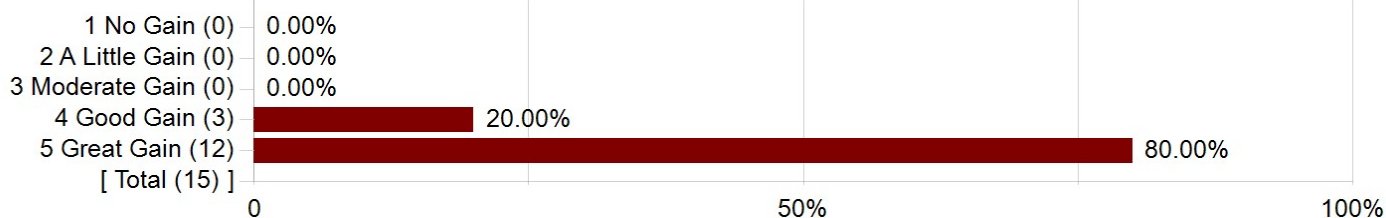
Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	14
A Little Gain	2	2	14.29%	Mean	3.93
Moderate Gain	3	3	21.43%	Median	4.00
Good Gain	4	3	21.43%	Standard Deviation	1.14
Great Gain	5	6	42.86%		

4. Homework Exercises



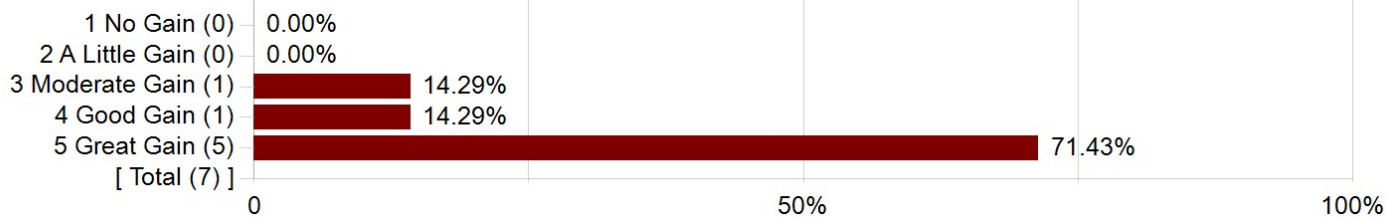
Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	14
A Little Gain	2	0	0.00%	Mean	4.43
Moderate Gain	3	2	14.29%	Median	5.00
Good Gain	4	4	28.57%	Standard Deviation	0.76
Great Gain	5	8	57.14%		

5. Lab Experiences



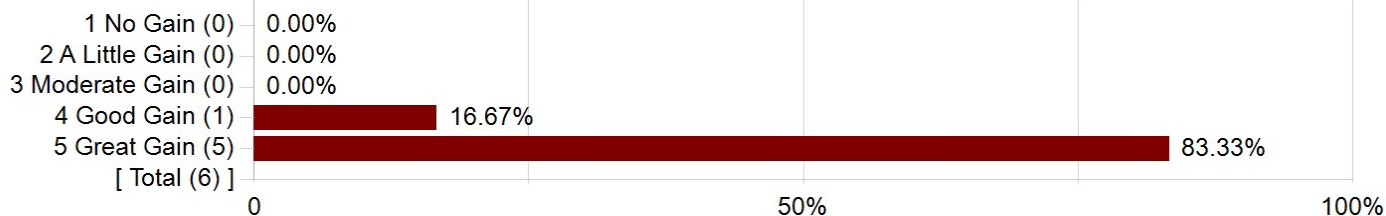
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No Gain	1	0	0.00%	Response Count	15
A Little Gain	2	0	0.00%	Mean	4.80
Moderate Gain	3	0	0.00%	Median	5.00
Good Gain	4	3	20.00%	Standard Deviation	0.41
Great Gain	5	12	80.00%		

6. Discussion Sessions



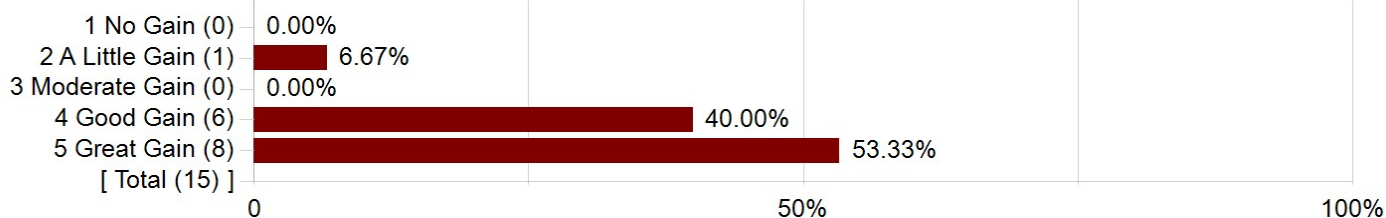
Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	7
A Little Gain	2	0	0.00%	Mean	4.57
Moderate Gain	3	1	14.29%	Median	5.00
Good Gain	4	1	14.29%	Standard Deviation	0.79
Great Gain	5	5	71.43%		

7. Review Sessions



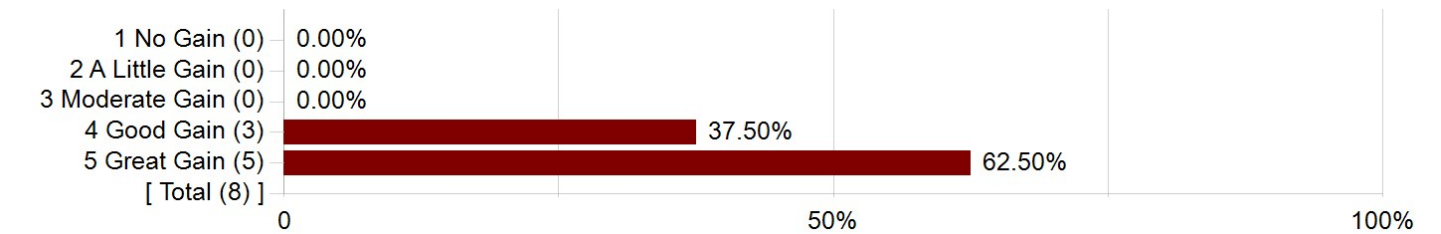
Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	6
A Little Gain	2	0	0.00%	Mean	4.83
Moderate Gain	3	0	0.00%	Median	5.00
Good Gain	4	1	16.67%	Standard Deviation	0.41
Great Gain	5	5	83.33%		

8. Interactions with Other Students



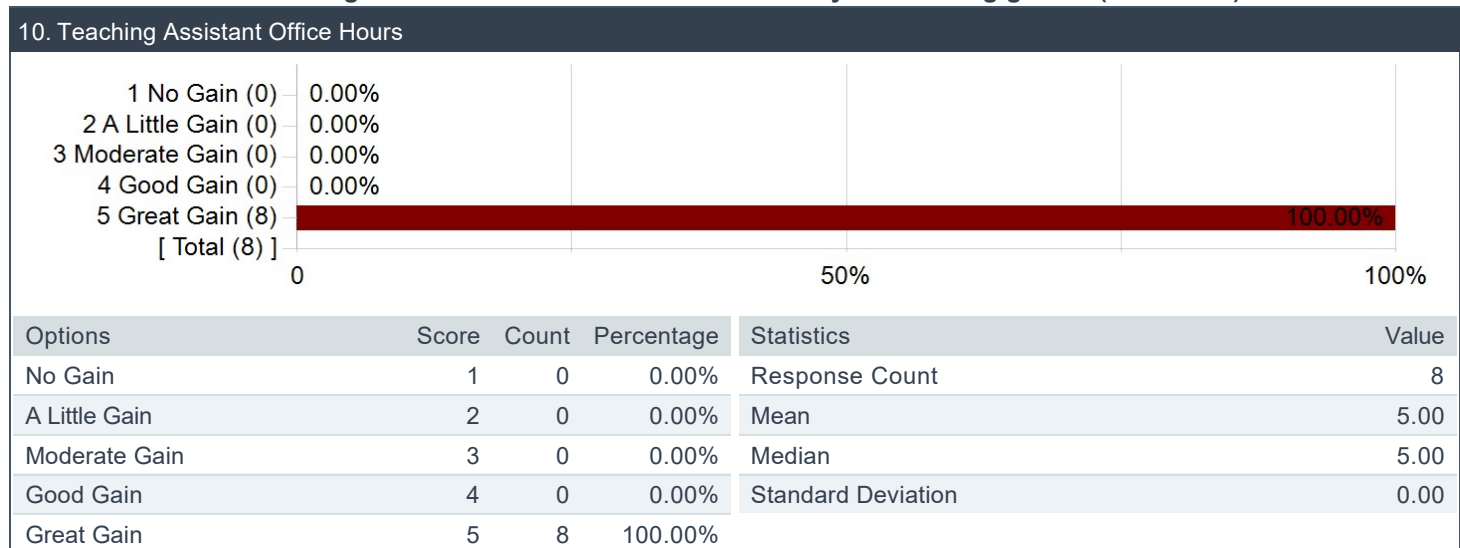
Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	15
A Little Gain	2	1	6.67%	Mean	4.40
Moderate Gain	3	0	0.00%	Median	5.00
Good Gain	4	6	40.00%	Standard Deviation	0.83
Great Gain	5	8	53.33%		

9. Faculty Office Hours



Options	Score	Count	Percentage	Statistics	Value
No Gain	1	0	0.00%	Response Count	8
A Little Gain	2	0	0.00%	Mean	4.63
Moderate Gain	3	0	0.00%	Median	5.00
Good Gain	4	3	37.50%	Standard Deviation	0.52
Great Gain	5	5	62.50%		

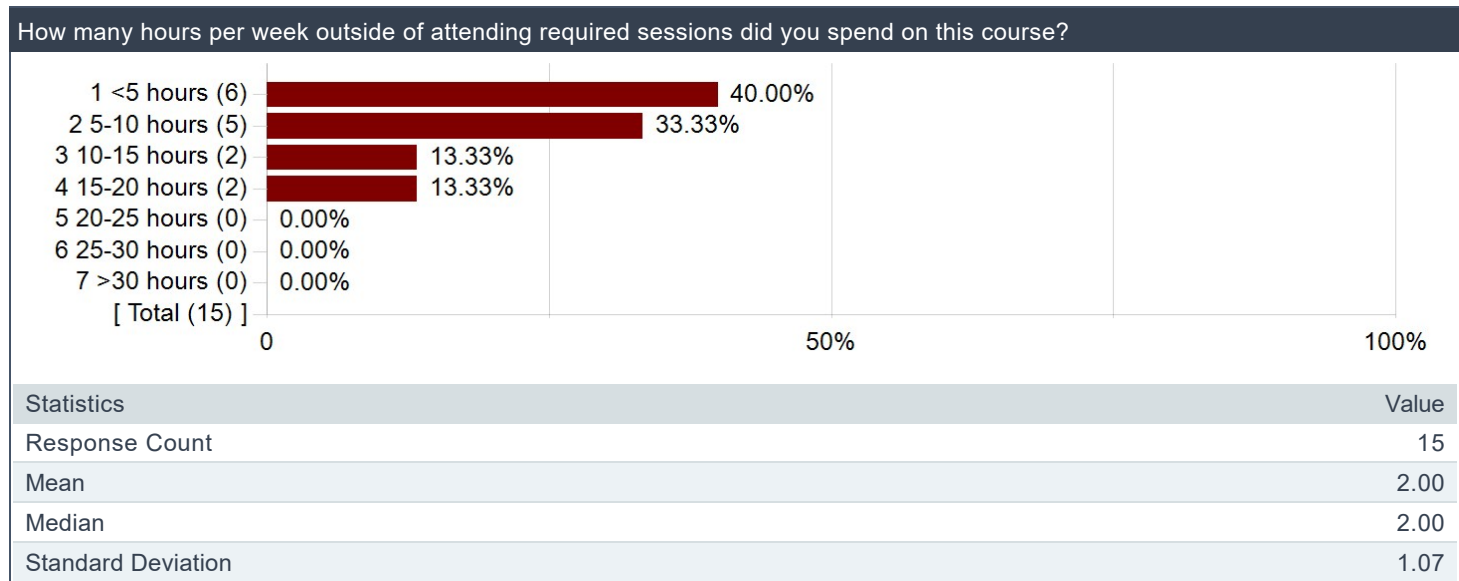
How much did the following elements of the course contribute to your learning gains? (continued)



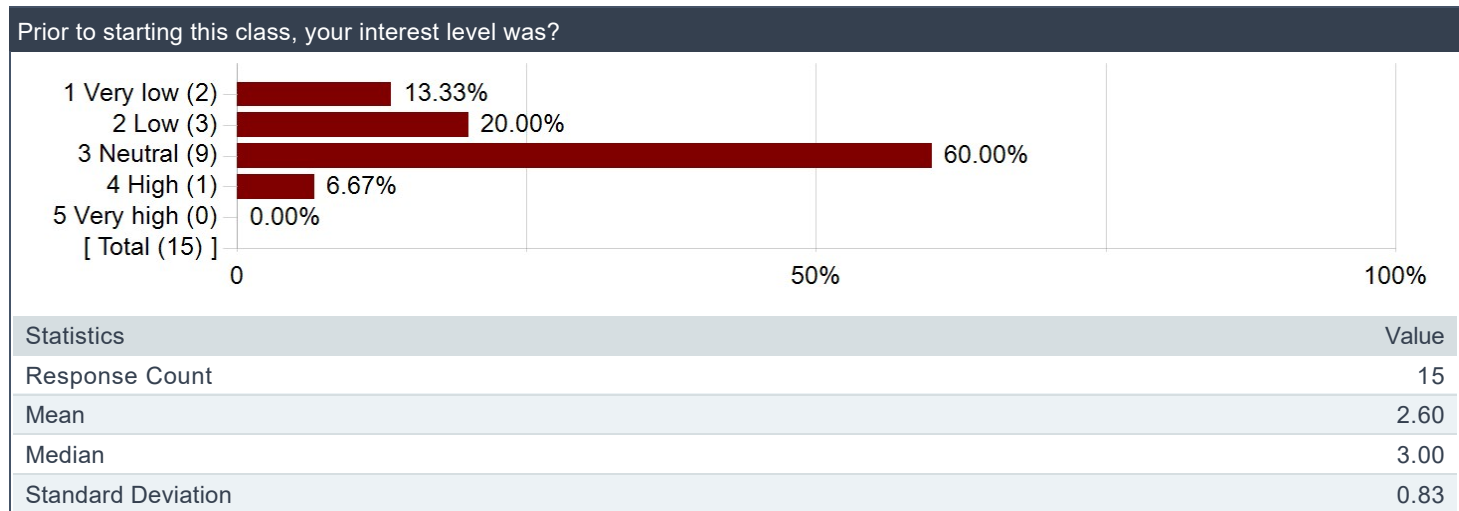
What was the most important thing (to you) that you learned in this course? What aspect of the material is still unclear for you, that you wish you could have learned better?

Comments
The primary differences between male and female Drosophila. Besides going in depth about specific differences, my group observed how each sex varied in the real world through seeing how they responded to different stimuli like ethanol and caffeine
The most important thing for me was learning how to navigate the scientific process and learning to conduct experiments/ask scientific questions. I'm generally not unclear about any material because I will try to clarify during office hours.
I've learnt a lot about Drosophila's aggressive behaviours and their reaactions to ethianol / caffeine. I would love to learn more about the neuronal structures, though.
How to conduct research experiments and accurately report that data. I could not confidently say that I could explain some of the topics discussed in lecture.
How to confidentially and independently perform scientific experiments in a lab setting
The most important thing I learned in this course was how to design and conduct research projects and then how to organize that information into a report
the basics of the scientific method. the biological parts were also quite important but the scientific method learning was the most important.
Thinking like a biologist was very interesting: evolutionary frameworks, energy trade-offs etc. I wish more time was spent on certain things (like epigenetics/DNA etc) to explain them more in-depth instead of going over them really fast and covering more things in less depth.
I think learning how to read research papers and incorporate it to our lab.
The most important thing is that I got to brush up on my stats. "Pathways" are still unclear to me but that's on me.
Sexual dimorphism and the experimental methods used to investigate it, a lot about the molecular biology of fruit flies
Sex difference

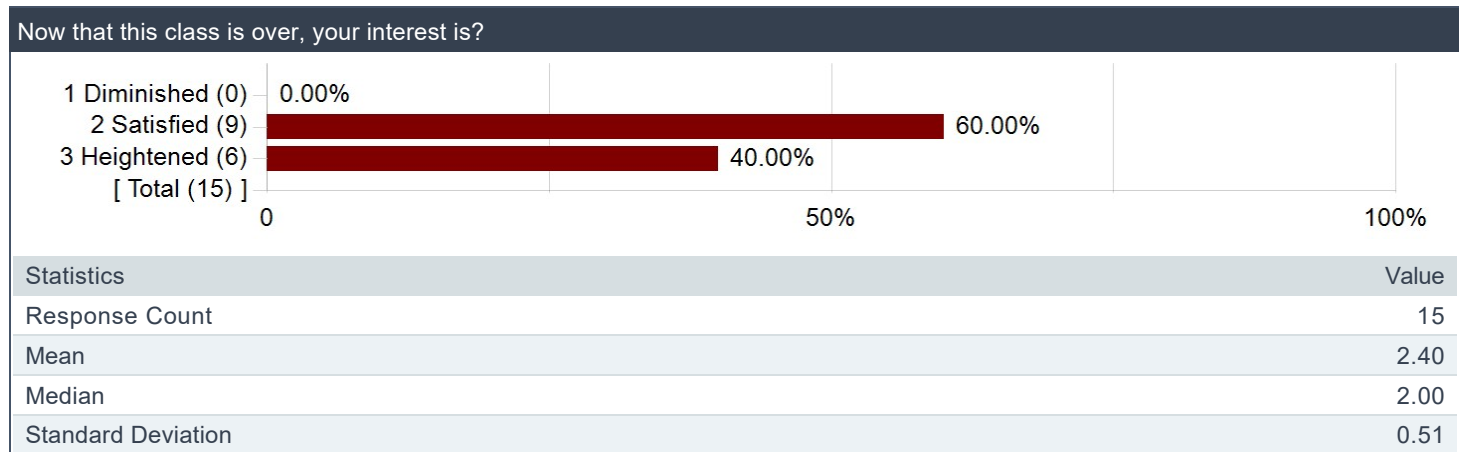
How many hours per week outside of attending required sessions did you spend on this course?



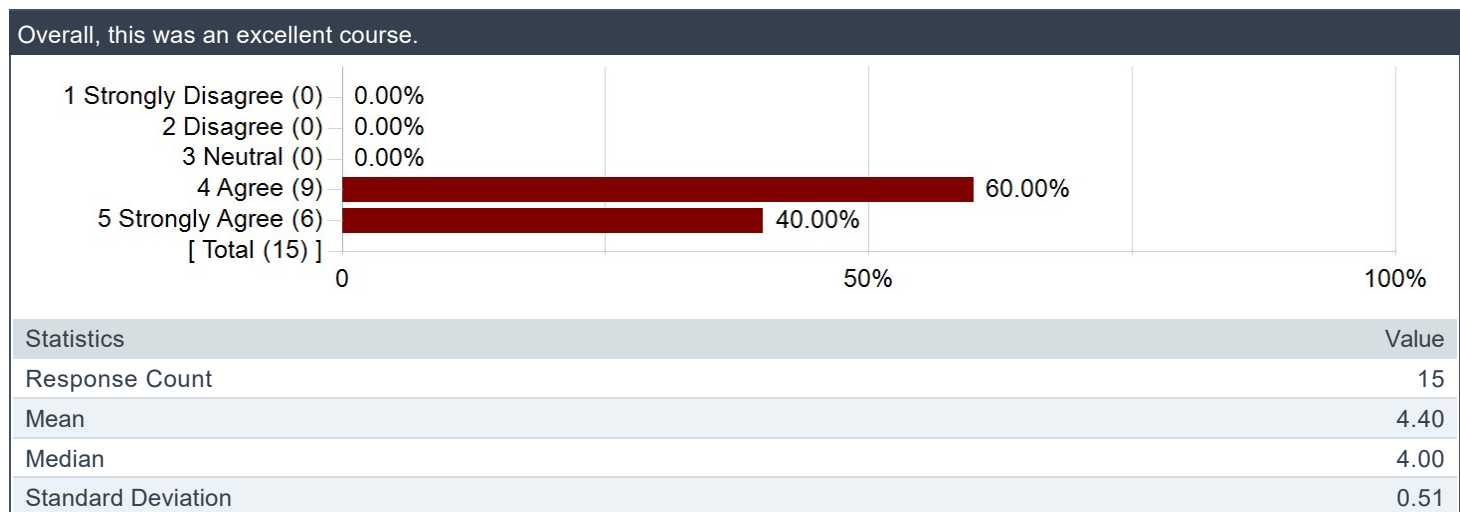
Prior to starting this class, your interest level was?



Now that this class is over, your interest is?



Overall, this was an excellent course.



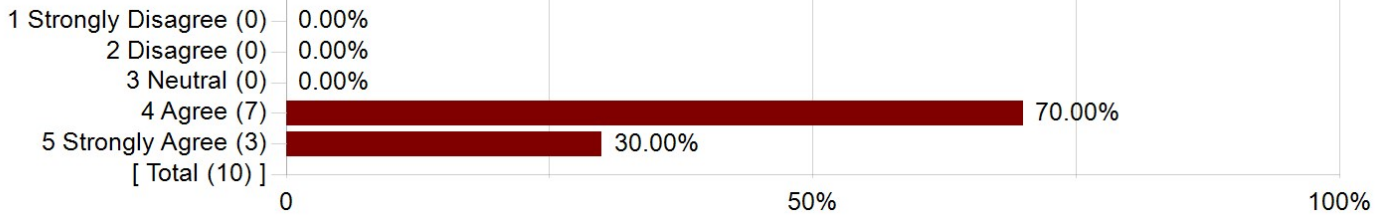
Please share any advice you have for students who are considering taking the course.

Comments
It's a good course!
Be prepared to do a lot of work the first few weeks of class.
Just take Professor Martineau's course if you really want to learn things in core bio.
Take this course over 10130 if you have little experience with bio. Dr. Martineau and the TAs are extremely helpful if you reach out.
Be prepared for a lot of work but the grading is nice and fair.
this course is a big time commitment as there are lab reports due after every class period, quizzes every week, research projects every week, assigned readings for each class, and more
Prof. Martineau wants to help you learn and understand the course, make sure to communicate with her over concerns/questions and get help if you need it! Do that and complete all the work on time (which can be a lot) and you'll do fine!
Pay attention to lectures!
Come prepared for lots of lab activities!
For group work, make sure you're dividing tasks evenly and fairly

Laboratory Meetings

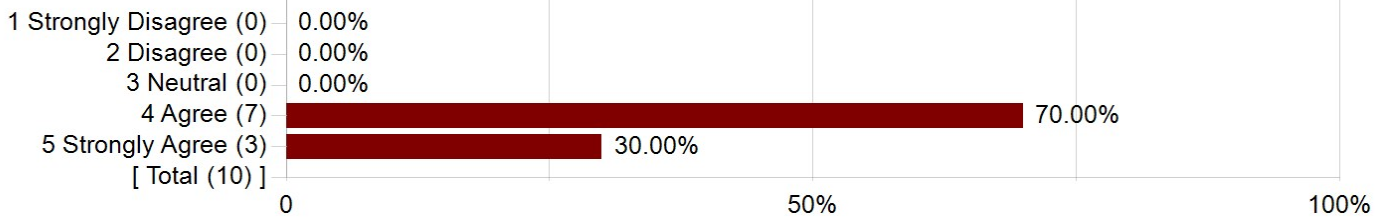
For each of the following statements, please indicate your level of agreement.

1. The laboratory protocols and instructions were clear and well organized.



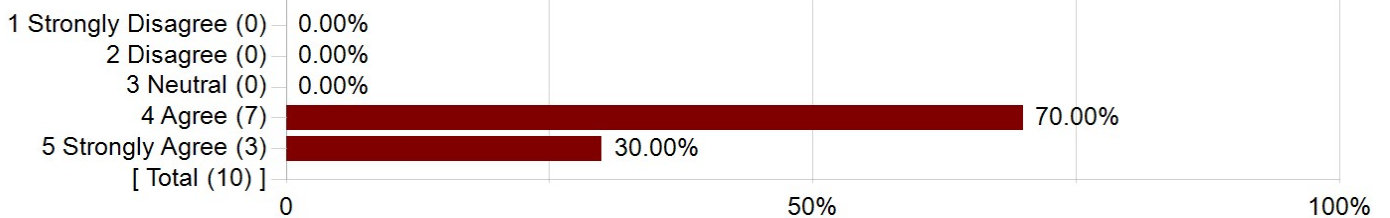
Options	Score	Count	Percentage	Statistics	Value
Strongly Disagree	1	0	0.00%	Response Count	10
Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
Agree	4	7	70.00%	Standard Deviation	0.48
Strongly Agree	5	3	30.00%		

2. Materials and equipment needed for performing the exercises were readily available.



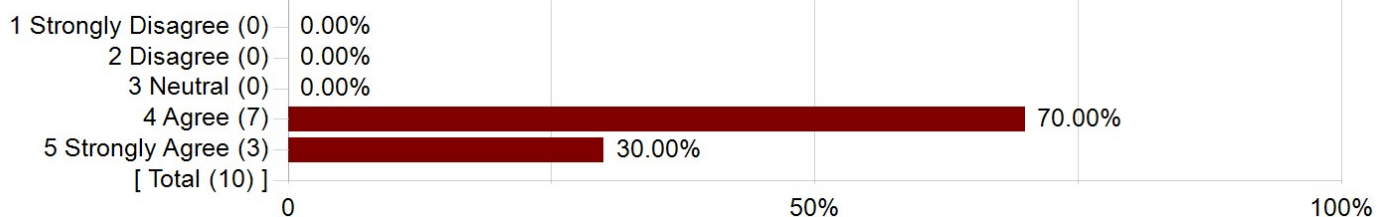
Options	Score	Count	Percentage	Statistics	Value
Strongly Disagree	1	0	0.00%	Response Count	10
Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
Agree	4	7	70.00%	Standard Deviation	0.48
Strongly Agree	5	3	30.00%		

3. The lab exercises had clear educational goals.



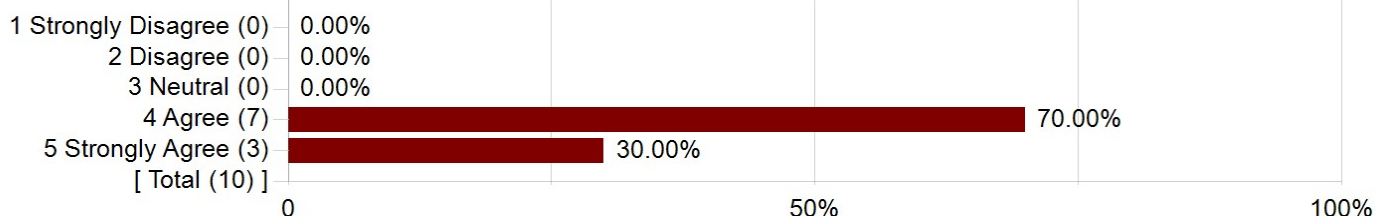
Options	Score	Count	Percentage	Statistics	Value
Strongly Disagree	1	0	0.00%	Response Count	10
Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
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Strongly Agree	5	3	30.00%		

4. The goals of the lab exercises were well integrated with the overall objectives of the course.



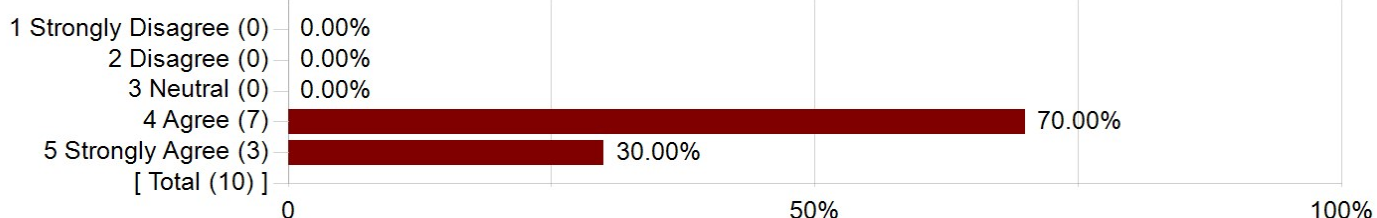
Options	Score	Count	Percentage	Statistics	Value
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Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
Agree	4	7	70.00%	Standard Deviation	0.48
Strongly Agree	5	3	30.00%		

5. The lab exercises explored course topics in ways that could not have been accomplished in lecture or discussion.



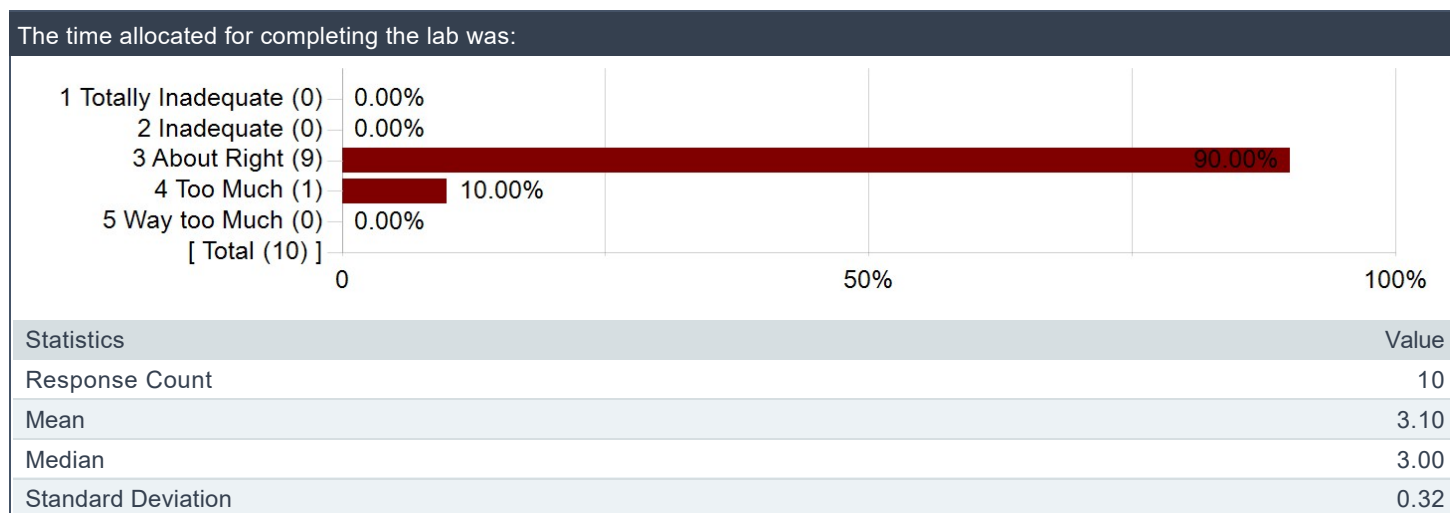
Options	Score	Count	Percentage	Statistics	Value
Strongly Disagree	1	0	0.00%	Response Count	10
Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
Agree	4	7	70.00%	Standard Deviation	0.48
Strongly Agree	5	3	30.00%		

6. Overall, this was an excellent laboratory experience.



Options	Score	Count	Percentage	Statistics	Value
Strongly Disagree	1	0	0.00%	Response Count	10
Disagree	2	0	0.00%	Mean	4.30
Neutral	3	0	0.00%	Median	4.00
Agree	4	7	70.00%	Standard Deviation	0.48
Strongly Agree	5	3	30.00%		

The time allocated for completing the lab was:



What observational, analytical, or technical skills did you gain during the laboratory exercises that enhanced your understanding of how biologists answer questions in this particular field?

Comments
Learning how to properly use a microscope and use a camera to view what is being observed properly. We learned how CO2 and direct human aspiration played different roles in knocking out flies.
I learned a lot about how to conduct lab experiments, the correct lab procedure, and how to ask testable hypotheses.
how to transfer flies through an aspirator & co2; how to use microscope; how to recognize fly behaviors;
I was able to learn how to use new equipment, to be patient while observing, to look for certain behaviors and to always record those observations
Gained knowledge of working with Drosophila using techniques like aspiration and measuring movement

Please share any recommendations to improve the laboratory learning experience.

Comments
break before lab; shorter labs
N/A

Please comment on how well this class met your expectations for an Inquiry-Based Biology course based on prior Core courses.

Comments
I thought it would be significantly more difficult, but it met my expectations and was paced very well.
I loved this course and it made me enjoy Bio more.
I think it has really well met my expectations since we have labs every course and it really helped with my learning.
It was my first bio course at the University so I did not know what to expect but overall it was amazing!
this course had a much greater workload
Exceeded my expectations handsomely. I had dreaded core bio but honestly loved this class.
Harder than the average IBL Bio class I think. Very good course nonetheless, I just had other commitments and classes that were more important to me and could not put in the time needed to truly make the most out of the class.
10/10
This class was exactly how I expected it to be. Long class periods with labs, but I didn't mind.
Met my expectations for content and assignments. Good level of understanding for non majors

Please comment on how well the assigned readings and instructor support prepared you to engage in course content and activities.

Comments
The assigned readings were helpful for taking the weekly quizzes
The assigned readings were very helpful and they provided a lot of additional background!
She did a great job!
assigned readings didn't help much; instructor's lectures were interesting
Reading was never too long and helped contextualize the content in lectures, and prepare for the weekly concept checkpoints. Prof Martineau was really great at everything including supporting our day to day learning.
Didn't do the readings and I was fine. Prof Martineau was always really helpful and friendly, really appreciate it! Content was just boring to me and I wasn't interested in actually becoming a biologist, so I always just glazed over the jargon and technicalities
I really enjoyed the readings since it had to do with the lectures given the next day
I didn't do any assigned reading! It didn't seem required, maybe one part of one of the articles got touched up in the concept checkpoints, and I had my separate major GPA to worry about.
The assigned readings were helpful and the class schedule was very clearly organized

Please comment on topics and/or activities that contributed most to your interest in and/or engagement with course material.

Comments
The topic we got to pick for the research project, observing aggression
Course material was interesting and lab experiences really enhanced my learning.
I think the assignments every week really help with my understanding of the course content.
In-class lab assignments were very engaging and helpful.
the large research project we planned ourselves
Learning the scientific method and also basic tests for statistical significance have been helpful for me even in my classes as a social science major.
I think the one that really sparked my interest was our labs
I came for sexual dimorphism and it delivered.
I found the discussions of sexual dimorphism, especially as a result of evolutionary tradeoffs, in general to be most engaging

Please comment on topics and/or activities that best supported the development of your scientific knowledge and/or skills.

Comments
Any interactive lab experience really helped me to solidify my understanding of the story.
The labs, concept checkpoints, and research project assignments really supported my development of my scientific knowledge / skills.
Research assignments and our major research project.
the research project we planned
The lectures and RPAs.
Labs were cool, designing our own experiment and running analyses on them was also very cool.
Labs, as well as our own experiment and project
I want to pursue a different science so none if it was that new to me.