BIOS 11140 1 - Biotechnology for the 21st Century - Instructor(s): Navneet Bhasin

Project Title: **College Course Feedback - Autumn 2023**

Number Enrolled: **40**
Number of Responses: **17**

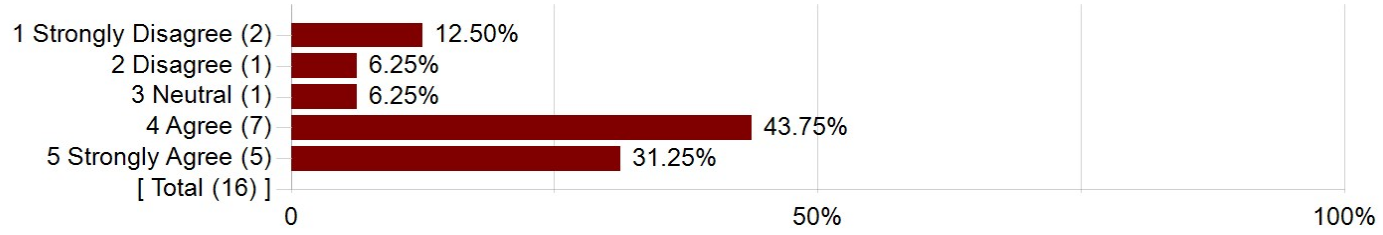
Report Comments

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

Creation Date: **Friday, February 2, 2024**

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

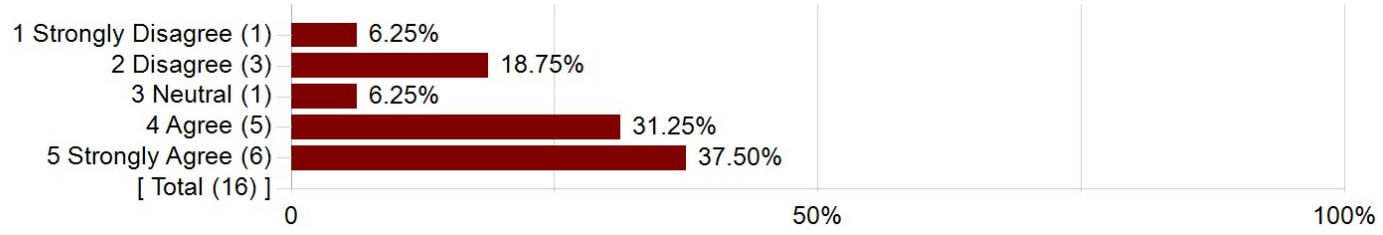
The learning objectives of the course were clear and I understood how to achieve them.



Statistics	Value
Response Count	16
Mean	3.75
Median	4.00
Standard Deviation	1.34

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

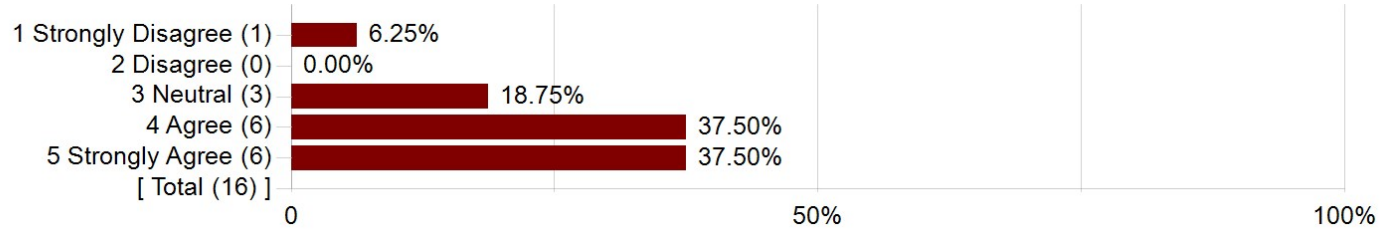
The course helped me to make important progress toward the stated objectives.



Statistics	Value
Response Count	16
Mean	3.75
Median	4.00
Standard Deviation	1.34

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

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



Statistics	Value
Response Count	16
Mean	4.00
Median	4.00
Standard Deviation	1.10

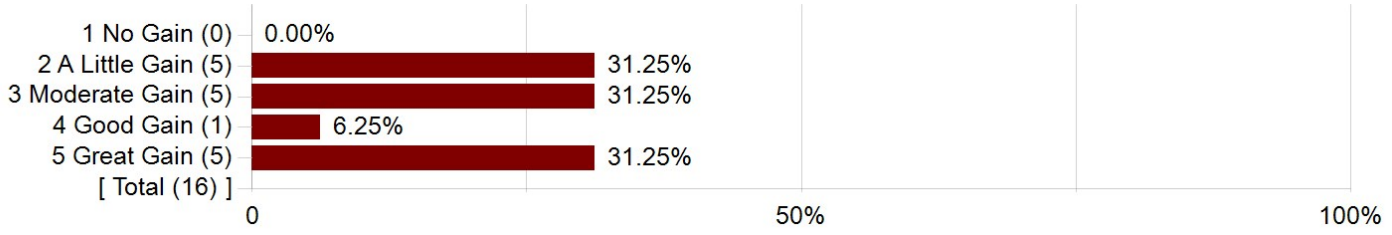
This course had more than one instructor and they connected well with each other.

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

Statistics	Value
Response Count	0
Mean	NRP
Median	NRP
Standard Deviation	NRP

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

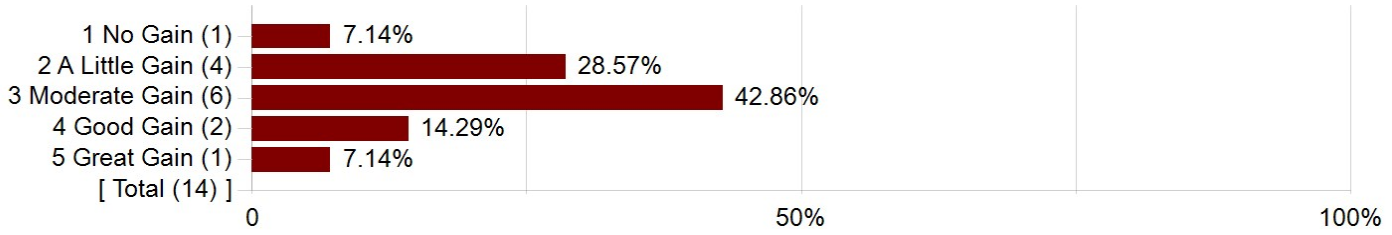
1. Classroom Lectures



Options	Score	Count	Percentage
No Gain	1	0	0.00%
A Little Gain	2	5	31.25%
Moderate Gain	3	5	31.25%
Good Gain	4	1	6.25%
Great Gain	5	5	31.25%

Statistics	Value
Response Count	16
Mean	3.38
Median	3.00
Standard Deviation	1.26

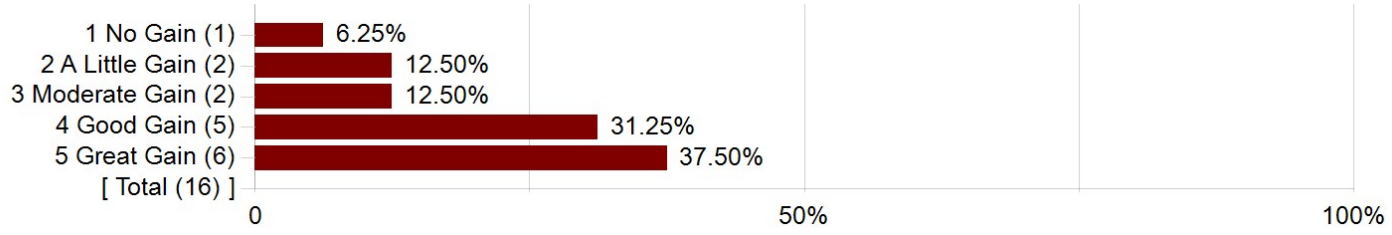
2. Classroom Discussions



Options	Score	Count	Percentage
No Gain	1	1	7.14%
A Little Gain	2	4	28.57%
Moderate Gain	3	6	42.86%
Good Gain	4	2	14.29%
Great Gain	5	1	7.14%

Statistics	Value
Response Count	14
Mean	2.86
Median	3.00
Standard Deviation	1.03

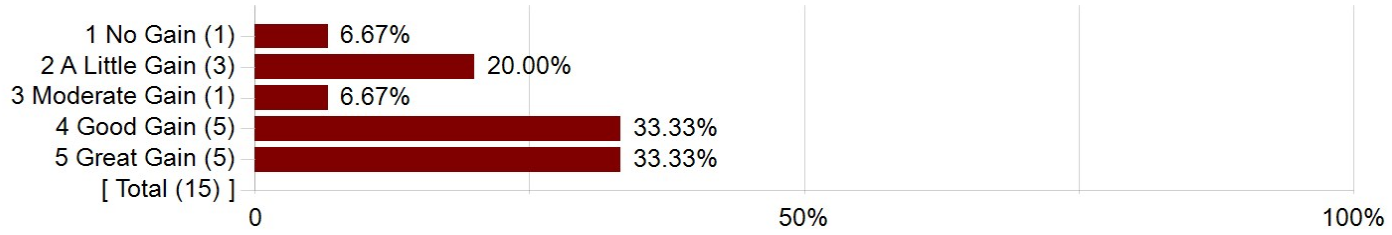
3. Assigned Readings



Options	Score	Count	Percentage
No Gain	1	1	6.25%
A Little Gain	2	2	12.50%
Moderate Gain	3	2	12.50%
Good Gain	4	5	31.25%
Great Gain	5	6	37.50%

Statistics	Value
Response Count	16
Mean	3.81
Median	4.00
Standard Deviation	1.28

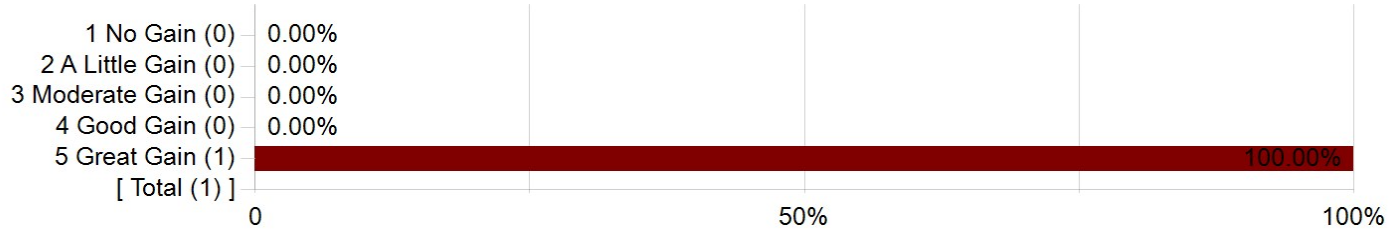
4. Homework Exercises



Options	Score	Count	Percentage
No Gain	1	1	6.67%
A Little Gain	2	3	20.00%
Moderate Gain	3	1	6.67%
Good Gain	4	5	33.33%
Great Gain	5	5	33.33%

Statistics	Value
Response Count	15
Mean	3.67
Median	4.00
Standard Deviation	1.35

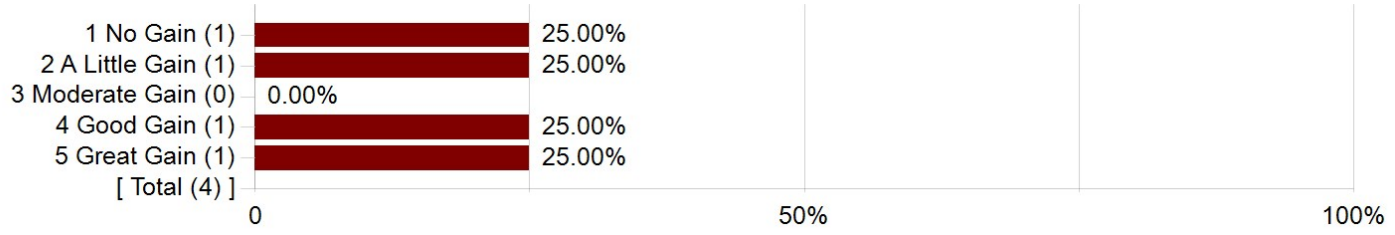
5. Lab Experiences



Options	Score	Count	Percentage
No Gain	1	0	0.00%
A Little Gain	2	0	0.00%
Moderate Gain	3	0	0.00%
Good Gain	4	0	0.00%
Great Gain	5	1	100.00%

Statistics	Value
Response Count	1
Mean	5.00
Median	5.00
Standard Deviation	N/A

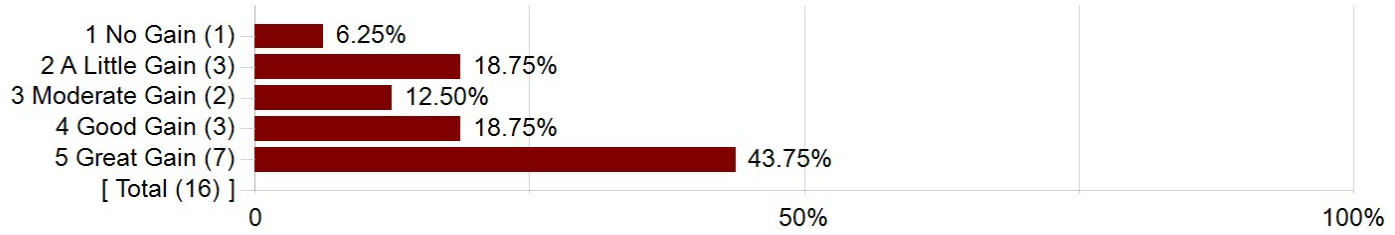
6. Discussion Sessions



Options	Score	Count	Percentage
No Gain	1	1	25.00%
A Little Gain	2	1	25.00%
Moderate Gain	3	0	0.00%
Good Gain	4	1	25.00%
Great Gain	5	1	25.00%

Statistics	Value
Response Count	4
Mean	3.00
Median	3.00
Standard Deviation	1.83

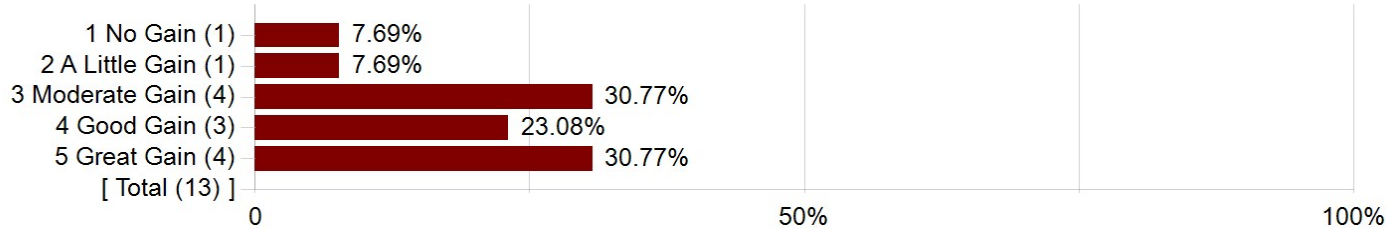
7. Review Sessions



Options	Score	Count	Percentage
No Gain	1	1	6.25%
A Little Gain	2	3	18.75%
Moderate Gain	3	2	12.50%
Good Gain	4	3	18.75%
Great Gain	5	7	43.75%

Statistics	Value
Response Count	16
Mean	3.75
Median	4.00
Standard Deviation	1.39

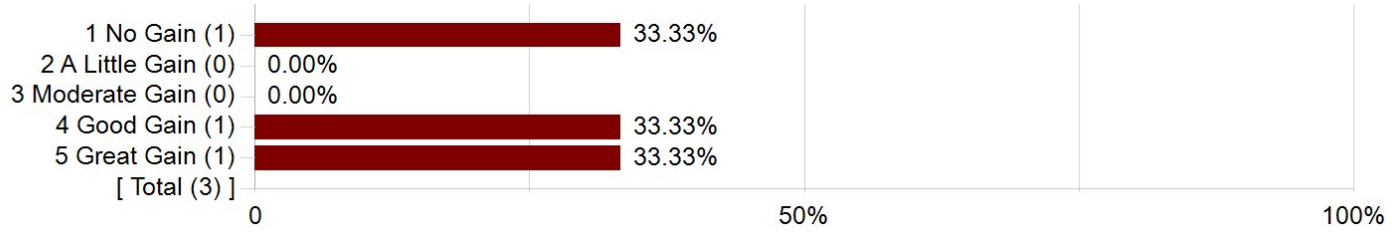
8. Interactions with Other Students



Options	Score	Count	Percentage
No Gain	1	1	7.69%
A Little Gain	2	1	7.69%
Moderate Gain	3	4	30.77%
Good Gain	4	3	23.08%
Great Gain	5	4	30.77%

Statistics	Value
Response Count	13
Mean	3.62
Median	4.00
Standard Deviation	1.26

9. Faculty Office Hours

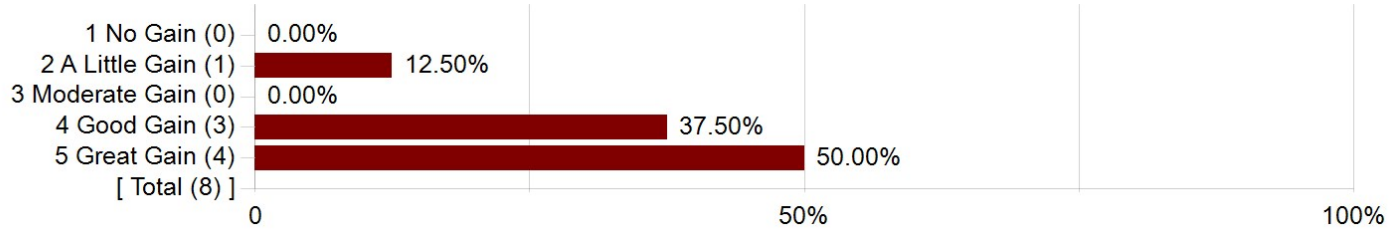


Options	Score	Count	Percentage
No Gain	1	1	33.33%
A Little Gain	2	0	0.00%
Moderate Gain	3	0	0.00%
Good Gain	4	1	33.33%
Great Gain	5	1	33.33%

Statistics	Value
Response Count	3
Mean	3.33
Median	4.00
Standard Deviation	2.08

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

10. Teaching Assistant Office Hours



Options	Score	Count	Percentage
No Gain	1	0	0.00%
A Little Gain	2	1	12.50%
Moderate Gain	3	0	0.00%
Good Gain	4	3	37.50%
Great Gain	5	4	50.00%

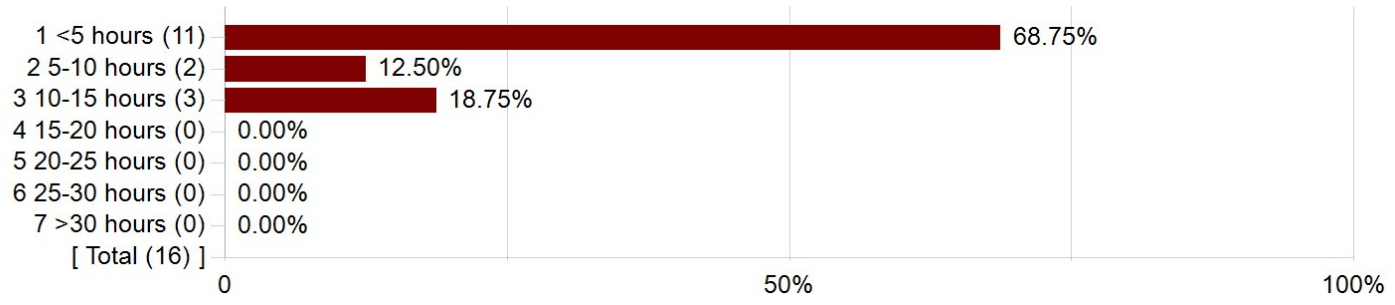
Statistics	Value
Response Count	8
Mean	4.25
Median	4.50
Standard Deviation	1.04

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
Functions of the cell was the main topic of discussion.
This course features an overview of many modern technologies at the forefront of innovation. Although it wasn't super explicitly discussed, something I think I will be thinking about regularly are "jumpling genes". Just as life exists as a self–replicating structure emergent from a substrate of nucleotides, within our DNA structure exist segments of DNA that can replicate and spread to other regions, almost "living" in a sense within the substrate of DNA of other life forms. I do wish I could've had a deeper dive into the mechanisms of life itself, but that is not the nature of this course! I found it so interesting to get a deeper dive into these subjects than I was able to in high school even though they weren't this course's main focus.
Biotechnology is more than gene–editing.
I really enjoyed learning about current aspects of biotechnology. I wish we had more time to cover applications of biotechnology like the ones that we presented on later in class.
The most important thing that I learned are the various techniques in Biotech.

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

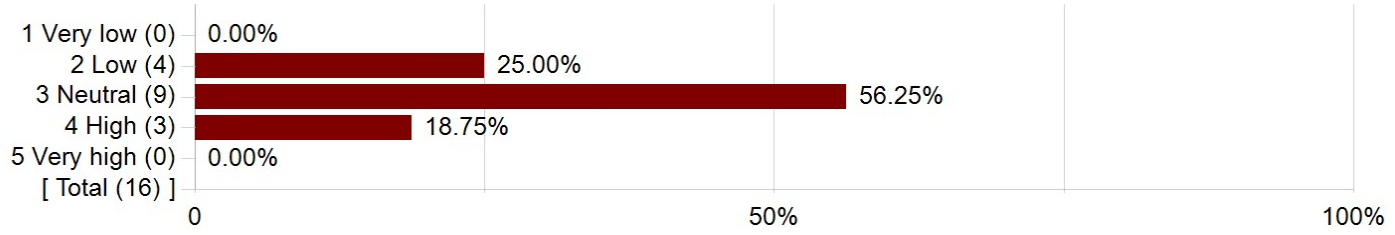
How many hours per week outside of attending required sessions did you spend on this course?



Statistics	Value
Response Count	16
Mean	1.50
Median	1.00
Standard Deviation	0.82

Prior to starting this class, your interest level was?

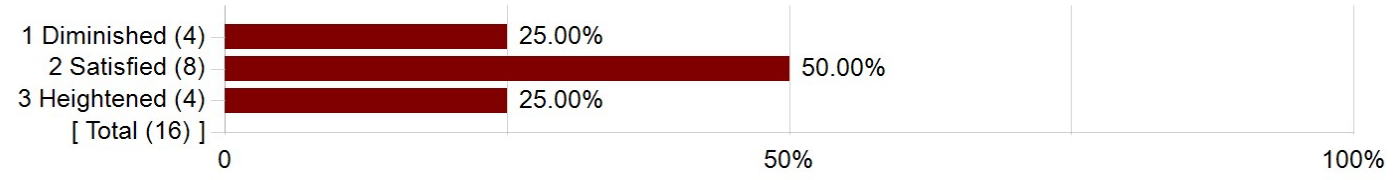
Prior to starting this class, your interest level was?



Statistics	Value
Response Count	16
Mean	2.94
Median	3.00
Standard Deviation	0.68

Now that this class is over, your interest is?

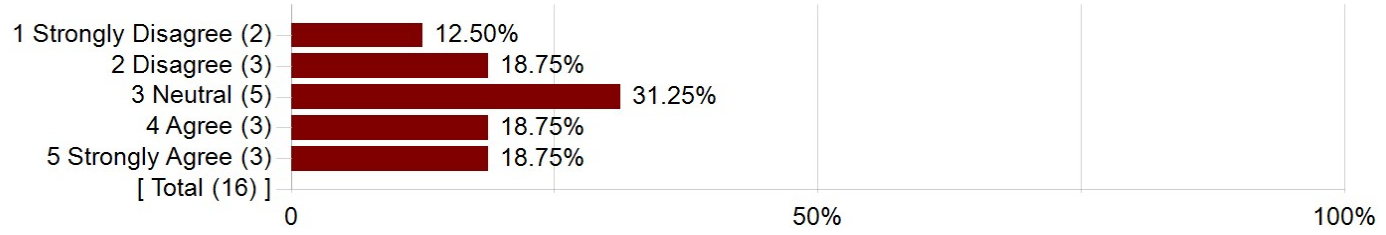
Now that this class is over, your interest is?



Statistics	Value
Response Count	16
Mean	2.00
Median	2.00
Standard Deviation	0.73

Overall, this was an excellent course.

Overall, this was an excellent course.



Statistics	Value
Response Count	16
Mean	3.13
Median	3.00
Standard Deviation	1.31

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

Comments
Only take it if you feel like you have a good grasp on inquiry level bio and an interest in diving a lot in depth
Covers elementary genetics for the most part: don’t expect too much biotech.
I found the tests to be extremely difficult, but the rest of the assignments were easy to succeed in.
I think it helps if you remember a bit of bio, but there are resources to help you if you've forgotten much of it. The workload isn't very intense, yet the course remains very engaging! I recommend it!
Go to TA office hours to review the weekly content in order to do well on exams.
Would not recommend if you are looking to learn about recent biotech. It feels like a repeat of the first bio core class, with the first 5 weeks spent on transcription and translation and the second half mostly on DNA sequencing techniques, and the exams ask super detailed questions about these. I'm not sure about other bio topics, but I would guess they provide some information you can actually use in some area of your life as a non–bio major.
None.