

Biology A207 – Cell and Molecular Biology Laboratory
Course Evaluation, Fall 2000
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SA = extremely effective

A = agree

N = neutral

D = disagree

SD = strongly disagree

NA = not applicable

l = lab; r = recitation

Question	SA	A	N	D	SD	NA	
1. The course syllabus made the objectives and requirements of this course clear.	53%	43%	2%	2%	0%	0%	
2. There was considerable agreement between the announced objectives and what was actually covered.	42%	49%	2%	4%	0%	3%	
3. The textbooks and teaching materials were beneficial.	24%	57%	13%	2%	2%	2%	
4. The quizzes, assignments, reports, and class discussions were representative of the course content.	24%	55%	13%	5%	5%	0%	
5. The policy for late work and make-up assignments was clear.	47%	35%	15%	4%	0%	2%	
6. The lab facilities and equipment were sufficient for the lab exercises.	30%	39%	10%	13%	8%	0%	
7. The instructor clearly described the grading procedures and policies	l	39%	39%	11%	5%	6%	0%
	r	42%	44%	12%	1%	1%	0%
8. The instructor followed the described grading procedure.	l	46%	37%	9%	7%	2%	0%
	r	42%	40%	11%	6%	1%	0%
9. The instructor made helpful comments on or about reports and quizzes.	l	48%	28%	15%	7%	4%	0%
	r	30%	41%	8%	13%	8%	0%
10. The instructor stimulated critical, analytical, creative, and independent thinking.	l	35%	48%	15%	2%	2%	0%
	r	29%	40%	16%	15%	0%	0%
11. The instructor was well prepared for the course.	l	46%	39%	7%	6%	2%	0%
	r	49%	39%	10%	2%	0%	0%
12. The instructor knew the matter well.	l	52%	40%	4%	4%	2%	0%
	r	57%	39%	2%	0%	2%	0%
13. The instructor communicated the subject matter effectively.	l	38%	49%	2%	6%	2%	0%
	r	36%	49%	6%	4%	4%	0%
14. The instructor made adequate provision for consultation and assistance.	l	43%	41%	9%	7%	0	0
	r	52%	43%	4%	0%	0	0
15. The amount of time and effort needed for this class was appropriate.	30%	48%	11%	9%	2%	0%	
16. The instructor began and ended class on time.	l	52%	45%	0%	3%	0%	0%
	r	49%	35%	11%	5%	0%	0%
17. The instructor was punctual in correcting tests and papers.	l	48%	37%	7%	7%	0%	0%
	r	50%	37%	7%	0%	7%	0%

18. The instructor was impartial in dealing with students.	I	49%	22%	17%	7%	4%	0%
	r	51%	42%	9%	2%	4%	2%
19. Overall, the course was a valuable educational experience.		53%	40%	0%	0%	7%	0%
20. I would recommend this instructor to other students.	I	50%	22%	11%	9%	8%	0%
	r	41%	36%	11%	10%	2%	0%

Written Comments

1.A. Please comment on the usefulness of the Recitation. Suggestions?

1. Recitation is useful to some degree but often it felt like a waste of time. Would just Giving reading assignments be better?
2. I think there should be at least some other opportunity for a grade than just one quiz at the end.
3. I like recitation because it is a time to clear things up as far as lab reports along with other questions.
4. I don't think there should be a separate grade for this class on the report card if I'm going to get the same letter grade as I did for lab.
5. I really don't think it is necessary.
6. I liked the review of background information.
7. This was much better than last year—the purpose of recitation is somewhat vague to me. It seems to me that it is not completely necessary.
8. Recitation is not very useful. We cover the exact same material in lab in the same amount of detail so it makes recitation a little redundant. Maybe have recitation as a discussion after lab.
9. Recitation was sort of helpful, but I think it is unnecessary, only because in addition to lab it makes it very hard to schedule other needed classes when recitation only meets once a week.
10. Very useless. Literally, the instructor just sums up what we will read in the manual.
11. The recitation was an OK part to the course, it is just that the things mentioned in recitation could be or were mentioned in lab instead of an extra one hour class.
12. It became more useful as the course went on, but because many people didn't attend recitation, time was spent in lab re-explaining to those that didn't come.
13. Recitation was very useful to me because it helped me to go over what was to be done in lab early.
14. It has no usefulness. The instructor was boring and made me fall asleep.
15. Very useful. Helped to explain what we had to do in lab.
16. The recitation emphasized on what was expected in lab made lab reports easier.
17. Very useful from last year (bio of org.).
18. Not very useful...even though it was designed as a LAB lecture, we STILL got/needed lectures in lab. Recitation just made us have to know MORE material.
19. The information was useful, but because it was on the web it was accessible.
20. It was so boring. Honestly, Dr. Shuh and Dr. Hauber should have switched places. Shuh is a good speaker and Hauber seemed to have more knowledge about the physical lab.

21. The recitation was useful in order for the lab instructor to not have to explain everything during lab time.
22. Not useful.
23. Recitation is useful, but I believe that there should not be a quiz at the end.
24. Recitation was more helpful this semester.
25. The recitation just seemed like a reiteration of what we could read ourselves. The recitation would be more valuable in discussing results from lab instead of telling us what we will be doing the next week. If we could discuss lab results as a class—I think we would learn more.
26. It's good to help us be prepared for the lab, but we took quizzes in lab that took away from lab time.
27. Very helpful in preparing for lab and writing reports.
28. Was very useful. I like the idea of having quizzes during lab rather than recitation. Keep it as so.
29. Very useful, especially the internet notes.
30. I like recitation because it gave added insight into the course.
31. Recitation, as stated last year, was not useful at all, due to the fact that all of our notes were posted on a web site of Dr. Hauber's. I feel the recitation did not for the most part help me.
32. Very helpful to understanding the objectives of each lab.
33. It kind of helped in a way.
34. Useful, when prepared beforehand for recitation lecture, not just prior to lab time.
35. It really helped us to be better prepared.
36. I thought the recitation, did in fact, help a lot with the understanding of the labs. However, the final quiz was a bit much.
37. I did not find recitation useful. The quizzes should be given in recitation. Also, the procedure should be demonstrated in detail in recitation to allow for a better understanding when you get to the lab.
38. I thought recitation was at the best useful.
39. It helped tie up loose ends in the procedure and data of the experiments.
40. It helped me to understand the lab for the week better. I thought recitation was very helpful in understanding this lab.
41. Very useful.

B. How often did you attend Recitation?

1. Missed 2 classes; one because I was ill and one because I was out of town.
2. I missed 2.
3. Pretty often; not every single time.
4. Not very often.
5. Almost always.
6. Often enough.
7. I came to every recitation.
8. Not very often because I found no need to come.
9. I missed only one.
10. Most classes.
11. All the time.

12. Four times, only because my work schedule interfered.
13. All but one class.
14. I only missed two classes.
15. 80%.
16. Every time.
17. All but one.
18. About once or twice a month.
19. Every time- but only because of the final quiz and the lab quizzes...not because I felt it was helpful.
20. Not often.
21. Every day.
22. Every time.
23. All but 2.
24. Every one.
25. Every one.
26. Never missed a class.
27. Every scheduled recitation.
28. All the time.
29. Always. Every time it was mandatory. I misses the one optional Monday.
30. Often.
31. Regularly.
32. Every time.
33. Always; probably missed two or three times.
34. Always.
35. I only missed one of the classes.
36. 90%
37. Weekly.
38. Everytime.
39. Pretty often.
40. All but two.
41. All the time.
42. Often.
43. All except for one.
44. Not as often as I should have.

2. Please comment on laboratory exercises. Good ones? Bad ones? Suggestions?

1. I liked all the labs—they were interesting and fairly straightforward. It is fun to do labs like PCR and blood labs because it pertains to human life, a topic I am interested in.
2. Good; for some it would have been helpful to know if we were actually waiting for something to happen (i.e. hemolysis lab) or if we were just wasting time.
3. I think all the labs were pretty straightforward, easy, to the point, etc. I like how the big labs were broken down into several weeks/parts.
4. Most were good.
5. The last one was horrible. Everyone was confused about what was going on. I really enjoyed the DNA lab, though.

6. I liked the blood lab; very interesting, and working with new lab equipment. Got good understanding of genetics from the Drosophila lab.
7. I enjoyed this lab thoroughly. The longer labs were somewhat more tedious, but I enjoyed every lab. I thought that the quizzes were fair and tested an adequate amount of material.
8. I enjoyed all of the labs; I think they were interesting and I learned a lot.
9. I feel the labs were very useful; the fly lab was just gross. Everything was very interesting and a good learning tool
10. The chloroplast lab took too long.
11. They were all fairly good labs.
12. The RBC lab was very helpful in understanding the concepts, the fly lab was the most fun, the chloroplast lab needs to be improved for time and more accurate results.
13. I didn't particularly like the ones that you design your own experiment. They seemed to take longer.
14. Too much work for pointless objectives. Rather just read about experiments.
15. All the labs were fun. All had their good points and bad points. The main bad point was that some labs were very tedious and lengthy especially lab 6C.
16. They were interesting, let's just leave it at that.
17. No suggestions.
18. Eliminate the one that makes us learn to use pipettes and microscope.
19. The labs were good—a little basic, many people had these in high school, but those people just refreshed their memories, and the others learned.
20. I hated the labs where we had to invent our own experiments. They were time consuming and not very enlightening.
21. Chloroplast lab: Although I understand the motivation behind letting the students figure it out, it seemed like we were missing some crucial info, i.e. the DCDIP was not going to turn from blue to clear as suggested in recitation, and the fact that the “bad” chloroplasts behaved differently than expected—we weren't told they were bad until we had been messing around with them for at least an hour. Not very helpful.
22. The lab was fine. I was bored with the liquid handling lab and the microscope lab. By this point, everyone should know how to use the equipment.
23. The exercises were o-kay. I enjoyed them much more than Biology of Organisms lab. They ran smoothly.
24. Most lab exercises were interesting. It would probably go more efficiently if the lab instructor knew what was going on during the labs.
25. The do-it-yourself labs were not enjoyable at all. I do not think that we knew enough about the lab to perform such experiments. I felt that less was learned during these labs and it was very frustrating—especially the chloroplast lab.
26. On the design your own exp. Chloroplast—it was hard to know what we were expected to do as far as running several trials and not just stopping when our data worked.
27. Good—fly lab. Bad—chloroplast lab. Some people never even got to the essential procedure steps.
28. Most of the labs were very interesting. Some dragged out for too long, like the flies....
29. The lab exercises were good. They really helped me to better understand the material.

30. I like the lab exercises. They were easy to follow.
31. I felt the labs were sometimes confusing and that me being in an earlier lab was a disadvantage because the labs hadn't been performed yet (we were the guinea pigs).
32. I enjoyed the creative experimental design. The microscopy lab was a little redundant and tedious just to learn to use the microscopes.
33. Fly lab had almost no relevance to lecture course.
34. I thought most of the lab exercises were fair and overall useful.
35. The fly lab is too confusing. It should be more clearly laid out in the lab manual or done later in the semester. The blood lab was very interesting as well as the DNA fingerprinting. At times, I found the material in the lab manuals unclear.
36. I thought the fly lab was a pain because it was so many flies. The DNA and blood labs were enjoyable. I did not like the chloroplast lab because the procedures were not clear even though I knew it was supposed to challenge us.

3. Other comments or suggestions?

1. Dr. Shuh is awesome!
2. The recitation quiz was really hard, considering that I studied a lot for it. I don't think that it is fair that I make very high A's on all my lab reports but I didn't do very well on the recitation quiz. That could bring my grade down.
3. Thank you!!
4. Recitation is a very pointless class. Also, the instructor is kind of dull, which does not help at all. The lab instructor ended up lecturing for a good amount of time before studying the actual lab anyway.
5. Haubert and Simon were very nice and easy to approach. I would definitely recommend them to others. I didn't like Simon's quizzes. They were impossible and lowered my grade severely.
5. Both Dr. Hauber and Dr. Shuh were wonderful instructors. They were both always available for help and knowledgeable of the subject matter.
6. Try to have the lecture coordinate more with the recitation and lab.
7. Lab should be a fun class and not graded as harshly or work load be too much.
8. DO NOT have a lab report due during exam week!!!!
9. DO NOT have a lab report due during final exam week!
10. Make sure the lab instructors are aware that they are supposed to help the students.
11. Don't grade inconsistently between students in same lab section!!!
12. Make grading procedures for lab reports REALLY clear because there was confusion in the beginning.
13. I think the final quiz should be given by the lab instructor. Also I think too much emphasis is placed on the lab reports.
14. The lab instructor was not very knowledgeable about questions about the lab. The grading of the reports was inconsistent and the expectations of the lab report were not always made clear.
15. I like that we had quizzes in lab and not recitation.
16. The final recitation quiz I think was unfair because we've been having quizzes in lab that usually followed a pattern. The final was prepared by a different instructor and had many questions which were unclear.

17. I did get what I needed to learn from the labs, but not enough thought was put into their construction. The lab report was ridiculous! Way too time consuming and graded extremely harshly.
18. Improve the clarity of procedures.
19. I like the grade distribution.
20. Have freshmen Cells and Heredity lab and a separate CMB lab!!!
21. I don't feel like the lab instructor treated us equally. Not really open to questions.
22. Should take off for a particular typo once, instead of taking off points for each time it appears in the lab report.
23. Recitation should not be counted as same grade as lab.
24. Good job this semester!
25. More on DNA.