"This was the first time I ever had to write for [a course] other than English. I've never written for a science class or done a lab report. With Whitney, we were able to understand what she wanted out of our writing, and she was always there to help."

*"I felt that the writing assignments helped me to think through exactly what we were testing and proving in the lab. By articulating exactly what had happened and what the results were,* 

I was forced to explain exactly what was going on.

Without the writing assignments, the labs would not have made as much sense to me" "Writing the essays allowed me to think deeper into what we were learning. A lot of times, I had to sit down and say, 'Okay. So we got this answer. Why?"

SA = Strongly Agree A = Agree D = Disagree SD = Strongly Disagree

| 1) My experience in this course strengthened<br>my writing. "Provided a way to make writing a process not a<br>one-time thing—improvement was over time." "Wish I'd had this<br>class before my senior year." "It improved my ability to find concrete<br>evidence to support abstract ideas." "This course taught me to view<br>things in an enlightened way—to see differently means to write   |                | SA<br>46<br>15%<br>SA + A      | A<br>194<br>65%<br>A = 80%          | <b>D</b><br>51<br><b>17%</b> | <b>SD</b><br>5<br><b>2%</b> |  |
|---|----------------|--------------------------------|-------------------------------------|------------------------------|-----------------------------|--|
| differently." "This course gave me the opportunity to write<br>more and to [receive] more feedback on my writing."<br>"It made me think more about my audience and how they don't<br>always have the same background of information that I have."<br>"We had numerous writing assignments which encouraged us<br>to improve our writing skills, as we did two drafts of each essay.<br>The peer reviews also helped to improve this skill." "We had<br>to use citations, compose organized and thoughtful papers, and | BIOL1103L      | 75<br>19%<br>SA + A            | 209<br><b>53%</b><br>A = <b>72%</b> | 99<br><b>25%</b>             | 16<br><b>4%</b>             |  |
|   | ,              | 56<br><b>18%</b>               | 175<br><b>56%</b>                   | 72<br><b>23%</b>             | 9<br><b>3%</b>              |  |
| explain our experiments in essay form. All of these things greatly strengthened my writing skills."   |                | SA + A = 74%                   |                                     |                              |                             |  |
| 2) The writing assignments enhanced my learning<br>of the subject matter of this course. "The writing assignments<br>enabled me to put into practice the styles of writing we were<br>learning about, as well as make the information more concrete."   |                | <b>SA</b><br>113<br><b>38%</b> | <b>A</b><br>165<br><b>55%</b>       | D<br>17<br>6%                | <b>SD</b><br>3<br>1%        |  |
| "I was able to make deeper connections with the content through   |                | SA + A = 93%                   |                                     |                              |                             |  |
| writing." "By writing about the material, I gained a deeper sense<br>of how to apply it to my teaching." "Having to write about<br>subjects whether in reflections or in formal papers forces you<br>to take a surface understanding of a subject to a deeper level."   | ə<br>BIOL1103L | 102<br><b>26%</b>              | 216<br><b>55%</b>                   | 63<br><b>16%</b>             | 12<br><b>3%</b>             |  |
| "The final paper has helped me to apply all of the things I<br>have learned in here into one comprehensive assignment."   |                | SA + A = 81%                   |                                     |                              |                             |  |
| "By writing everything out and explaining what I did step-by-<br>step, I learned the concepts more in depth." "You often<br>don't think about <u>why</u> something works." "Even when doing the   | BIOL 1108L     | 47<br><b>15%</b>               | 171<br><b>55%</b>                   | 78<br><b>25%</b>             | 12<br><b>4%</b>             |  |
| experiment, I never knew what the carb cutter lab was all about.<br>However, when doing the actual paper, I finally got it."  |                |                                | SA + A = 70%                        |                              |                             |  |

| 3) The writing assignments encouraged me to be<br>actively involved in the course. "The assignments were<br>incredibly stimulating causing me to be involved in the course on a<br>heightened level." "Reflections helped me keep<br>up w/reading assignments." "They made me think about the<br>subject matter and voice my opinions." "If I did not have to  |            | SA  A  D    84  158  44    28%  53%  15%    SA + A = 81% |                               | SD<br>7<br>3%                |                              |
|--|------------|--|-------------------------------|------------------------------|------------------------------|
| subject matter and voice my opinions." "If I did not have to<br>write the reports, I would have been less motivated to know<br>exactly what was going on during the procedures."<br>"Because I prefer to not speak in classroom settings, this<br>portion of the laboratory allowed me to fully express my<br>opinions and thoughts." "It allowed the different groups to<br>work together to solve a problem." "Since we had writing<br>assignments to do, I was more inclined to ask questions to<br>understand the topics better. This way, I would be able to<br>complete the assignment better."  | BIOL 1103L | 110<br><b>28%</b>  | 204<br><b>52%</b>             | 67<br><b>17%</b>             | 12<br><b>3%</b>              |
|  |            | SA + A = 80%   |                               |                              |                              |
|  | BIOL 1108L | 56<br><b>18%</b>   | 153<br><b>49%</b>             | 88<br><b>28%</b>             | 13<br><b>4%</b>              |
|  |            | SA + A = 67%   |                               |                              |                              |
| 4) The writing assignments helped me to understand<br>the ways of writing that are particular to this subject<br>(for example: the ways of writing in the sciences, the  |            | <b>SA</b><br>89<br><b>30%</b>                            | <b>A</b><br>167<br><b>56%</b> | <b>D</b><br>31<br><b>10%</b> | <b>SD</b><br>8<br><b>3%</b>  |
| social sciences, or the humanities). "I learned how to<br>write for a scientific audience. I also learned how to structure   |            | SA + A = 86%   |                               |                              |                              |
| how to write professionally." "I have a ton more<br>confidence with my scientific writing." "I feel more comfortable<br>and prepared to write lab proposals and research articles. I will be<br>using the methods and techniques I learned in this class in my   | BIOL 1103L | 102<br><b>26%</b>  | 207<br><b>53%</b>             | 66<br><b>17%</b>             | 12<br><b>3%</b>              |
|  | be         | SA + A = 79%   |                               |                              |                              |
|  | BIOL 1108L | 84<br><b>27%</b>   | 187<br><b>60%</b>             | 34<br><b>11%</b>             | 6<br><b>2%</b>               |
|  |            | SA + A = 87%   |                               |                              |                              |
| 5) The coaching I received from the teaching assistant<br>was effective: "She gives thoughtful comments that help push me."<br>"I've learned to have more cohesive and persuasive arguments."<br>"Maria was excellent in helping me to shape a stronger essay &  |            | SA<br>84<br>28%  | <b>A</b><br>155<br><b>52%</b> | <b>D</b><br>31<br><b>12%</b> | <b>SD</b><br>21<br><b>7%</b> |
| in pointing me towards the points that I should focus on."<br>"Whitney is not only a great help to my writing but very<br>encouraging!!!!" "I really understood requirements better<br>after the WIP TA gave instructions." "She always gave<br>constructive feedback, aiding in improving my writing."<br>"The notes that she wrote on our drafts were encouraging and<br>helpful." "His feedback was helpful without being overly<br>critical." "It was all very effective; his comments helped me<br>understand how I should explain and analyze something in the<br>context of a scientific paper, as well as to lend to my<br>understanding of the subject itself." |            |  | SA + A = 80%                  |                              | 10                           |
|  | BIOL 1103L | 138<br><b>35%</b>  | 189<br><b>48%</b>             | 51<br><b>13%</b>             | 12<br><b>3%</b>              |
|  |            | SA + A = 83%   |                               |                              |                              |
|  | BIOL 1108L | 116<br><b>37%</b>  | 163<br><b>52%</b>             | 25<br><b>8%</b>              | 6<br><b>2%</b>               |
|  |            | SA + /   | 4 = 89%                       |                              |                              |

| 6) The writing element of this class increased my<br>satisfaction with the overall course: "The writing was<br>exciting and worthwhile." "I found the writing useful in that<br>it forced me to analyze every detail, and thus, allowed me to make             |            | <b>SA</b><br>58<br><b>20%</b> | <b>A</b><br>136<br><b>46%</b> | D<br>72<br><b>24%</b> | <b>SD</b><br>26<br><b>9%</b> |  |
|--|------------|-------------------------------|-------------------------------|-----------------------|------------------------------|--|
| connections that I would have otherwise missed." "Especially since   |            | SA + A = 66%                  |                               |                       |                              |  |
| I'm not good in discussion, writing was a great vehicle."<br>"Being a not-so-outspoken person, it helped me to express<br>my thoughts without feeling uncomfortable." "I'm proud of the<br>papers I completed." "I will definitely teach with a little writing | BIOL 1103L | 51<br><b>13%</b>              | 158<br><b>40%</b>             | 130<br><b>33%</b>     | 55<br><b>14%</b>             |  |
| involved after taking this course."  |            |                               | SA + A = 53%                  |                       |                              |  |
|  | BIOL 1108L | 31<br><b>10%</b>              | 115<br><b>37%</b>             | 115<br><b>37%</b>     | 53<br><b>17%</b>             |  |
|  |            |                               |                               |                       |                              |  |

SA + A = 47%