Supplemental Materials

for

Improving Education in Agricultural Biosciences through Studying Abroad in the United States

Phillip R. Myer¹*, David Ader², and Tom Gill²

¹Department of Animal Science, University of Tennessee Institute of Agriculture, Knoxville, TN 37996; ²Smith Center for International Sustainable Agriculture, University of Tennessee Institute of Agriculture, Knoxville, TN 37996

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*Corresponding author. Mailing address: Department of Animal Science, University of Tennessee Institute of Agriculture, 2506 River Dr., Knoxville, TN 37996. Phone: 865-974-3184. E-mail: pmyer@utk.edu.
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Appendix 1

Zamorano Study Abroad Survey Instrument

1. In what year were you born? __________
2. What country are you from? __________________ 
3. What is your sex? _______________
4. Would you call where you are from a rural area?
   a) Yes  
   b) No
5. How old were you the first time you left your home country?
6. Have either of your parents graduated from a university?
   a) Yes 
   b) No
7. What is your major? [Agronegocios], [Agroindustria Alimentaria], [Abiente y Desarrollo], [Ciencia y Produccion Agropecuaria]
8. How satisfied are you with your overall educational experience in Zamorano?
   a) Strongly Satisfied
   b) Satisfied
   c) Neither Satisfied nor dissatisfied
   d) Dissatisfied
   e) Strongly Dissatisfied
9. Based on what you thought it would be like before coming to Zamorano, is it better or worse than you expected?
   a) Better than I expected
   b) Neither better nor worse than I expected
   c) Worse than I expected
10. Before coming to Zamorano, how many times have you left your home country? _______
11. How supportive is your family of you studying in Zamorano?
   a) Strongly Supportive
   b) Supportive
   c) Neither Supportive nor Unsupportive
   d) Unsupportive
   e) Strongly Unsupportive
12. How supportive was your family of you studying abroad?
   a) Strongly Supportive
   b) Supportive
   c) Neither Supportive nor Unsupportive
   d) Unsupportive
   e) Strongly Unsupportive
13. Where did you go for your pasantia?
   a) Name of country
   b) Name of Institution
14. Did you have your own project during your pasantia? __________________
15. When you first arrived to live in the country of your pasantia, what was your overall experience?
   a) Strongly Positive
   b) Positive
   c) Neither positive nor negative
   d) Negative
   e) Strongly Negative
16. Before you moved to the country of pasantia, what was your level of nervousness about living there?
   a) Strongly Nervous
   b) Nervous
Appendix 1

Zamorano Study Abroad Survey Instrument

c) Neither nervous nor calm
d) Calm
e) Strongly Calm

17. What is your level of nervousness for living there now?
   a) Strongly Nervous
   b) Nervous
   c) Neither nervous nor calm
   d) Calm
   e) Strongly Calm

18. Would you return to live there if you had the opportunity?
   a) Yes definitely
   b) Maybe someday
   c) I doubt it
   d) No never

19. Where do you want to live after you finish university?
   a) A large city
   b) A medium town
   c) A Small town
   d) A rural area

20. What is your long term career goal?
   a) University/research
   b) Agricultural production/farm
   c) Government
   d) NGOs
   e) Business/industry
   f) Other

Please indicate the degree to which you agree or disagree to the following statements.

<table>
<thead>
<tr>
<th>Statement</th>
<th>Strongly Agree</th>
<th>Agree</th>
<th>Neither Agree or Disagree</th>
<th>Disagree</th>
<th>Strongly Disagree</th>
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<tbody>
<tr>
<td>I felt prepared for my international internship</td>
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<td>The internship met my expectations.</td>
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<td>The internship was a rewarding experience.</td>
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<td>The duration of my international internship was appropriate.</td>
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<td>The workload of my internship was manageable and achievable.</td>
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<td>The work I completed for my internship was interesting.</td>
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</tbody>
</table>
Appendix 1

Zamorano Study Abroad Survey Instrument

| The work I completed for my internship was relevant to my studies at Zamorano |   |   |   |   |
| My internship mentor was professional |   |   |   |   |
| My internship mentor was committed to ensuring my internship was a success |   |   |   |   |
| My internship mentor was willing to listen to my educational needs and desires |   |   |   |   |
| My internship mentor was an effective communicator throughout the duration of my internship |   |   |   |   |
| I am more confident in implementing scientific methods as a result of my internship |   |   |   |   |
| My communication skills were strengthened during my internship |   |   |   |   |
| My internship provided me with experiential (hands-on) learning opportunities |   |   |   |   |
| I spent sufficient time in the laboratory during my internship |   |   |   |   |
| My internship expanded my theoretical knowledge of my discipline of study |   |   |   |   |
| My scientific knowledge was improved by participating in an international internship |   |   |   |   |
| I intend to publish papers, articles, or manuscripts as a result of my internship |   |   |   |   |
| I intend to seek collaborative grant opportunities with my mentor as a result of my internship |   |   |   |   |
| I intend to pursue (post)graduate study opportunities following my graduation from Zamorano |   |   |   |   |
| I have stayed in contact with my internship mentor/supervisor since the completion of my internship |   |   |   |   |
| My internship strengthened my chances of securing future employment in my home country |   |   |   |   |
| I have a deeper desire for collaboration with people from different countries as a result of my internship |   |   |   |   |
Appendix 2

Zamorano Internship Coordinator Interview Guide

Number of Zamorano interns supervised: _________

Zamorano program of study:

Overall

1. What do feel are the overall strengths of the internship program you have offer to Zamorano students?
2. What do feel are the overall weaknesses of this program?

Pre-internship

3. Do you feel students were as prepared as they could have been when the student arrived?
4. In hindsight, what could you have done differently to better prepare the student for the internship?

During internship

5. Describe briefly some rewarding experiences of the students.
6. Describe briefly the most challenging experiences of your students.
7. Thinking about the student(s) you worked with directly:
   o Was his/her project manageable?
8. Thinking about the student(s) you worked with directly:
   o Did their projects seem of interest to the student?
9. For each category, please identify/describe the most significant barrier (if any) to the success of the internship:
   a. Administrative barriers:
   b. Research barriers:
   c. Cross-cultural barriers:

Post-internship

10. Based on your experiences with Zamorano student interns, please list up to three personality characteristics/traits that are important in order for an international student to succeed in an internship.

Science Education

11. What is the relationship between science education and an internship experience?
12. Please describe ways in which a student’s knowledge of the scientific method improves by going abroad.
13. How does an internship affect a student’s knowledge of theory?
14. What are the best types of internships to increase a student’s confidence in their ability to engage with scientific research?