APPROVAL SHEET for PLS4941
PRACTICAL WORK EXPERIENCE IN PLANT SCIENCE

3 Credits S-U Grade Only

Prerequisites: Prior arrangement with advisor and employer; approval of department chairman

Student Name: ______________________________________________
UF ID: ________________________________________________________
Expected Graduation Date: _________________________________
Grade Point Average: _________________________________
Department Advisor: _________________________________________
PLS4941 Advisor: __________________________________________
Employer: Name of Firm: ____________________________________
Address: __________________________________________
Phone: ___________________ Fax: ___________________
E-Mail: __________________________________________
Proposed Supervisor’s Name: _________________________________
Supervisor’s Position or Title: ______________________________
Students Proposed Wage: ___________________________________
Working Hours: __________________________________________
Overtime Hours Available: ___________________________________
Start and End Dates: _______________________________________
Lodging Accommodation Address: ___________________________
Student contact info (phone # and E-mail) ___________________
Brief Description of Employers Operation: ___________________
__________________________

Number of Credits: _______

Approved By:
1. Supervisor (at intern site) ________________________________
   (Signature indicates that employer accepts duties outlined in “Description of Employers Duties” line A)
2. Department or PLS4941 Advisor ___________________________
3. Department Chairman ____________________________
FULL-TIME PRACTICAL WORK EXPERIENCE IN PLANT SCIENCE

THINGS TO LOOK FOR IN AN INTERNSHIP

- Location of internship?
- Is housing or assistance in finding housing provided?
- Is transportation provided, or is public transportation available?
- Will there be other interns to network with?
- What are the work hours?
- What is the hourly wage or stipend?
- Will I be required to work week-ends?
- Will I have an immediate supervisor/who will I report to?
- Does the internship provide a rotating work experience?
  - Growing/Production
    - Potting
    - Fertilization
    - Plant spacing
    - Pruning
  - Inventory control
  - Pest management
  - Shipping
  - Sales/Marketing
  - Administration
  - Equipment training
    - Run a potting machine
    - Operate a fork lift/front end loader, etc.
- Are there educational opportunities available?
  - Trade meetings (FNGLA or similar chapters)
  - Attending trade shows
  - Visiting other facilities
  - Opportunity to secure required licenses
    - Spray application license, etc.
  - Will I be required to complete an intern project?

Revised June 2013
PLS4941 Program

DUTIES OF STUDENTS, EMPLOYER, AND PLANT SCIENCE MAJOR

Student’s duties:

a. The student will be required to keep a daily activity log for the entire internship and submit a formal written report before a grade will be issued. The daily log must be legible, electronic format is preferred. If the student registers for credit during the semester they are employed under this program (PLS4941) and are graduating that semester, the report is due one week before grades for graduating seniors are submitted. Under all other circumstances, the report is due within two weeks of completion of the internship. If this two-week period extends past the current semester, the student will receive an incomplete grade for that term, but the grade will be changed the next term when the report is submitted. The report will contain information outlined in appendix A.

b. The student will perform job tasks assigned by the supervisor, just as if he/she were a regular employee.

Employer’s duties:

a. Student will be treated similar to regular employees with respect to personnel practices, insurance coverage (Worker’s Comp) and wages.

b. Student will be assigned a wide variety of activities in the operation. This is the purpose of the PLS4941 program, to learn by doing. A representative list of work activities for employed students is included as appendix B.

c. It is not expected that a student will have the opportunity to gain experience in all phases of the employing firm, nor is the employer expected to disrupt his normal schedule of operations to provide that opportunity for the student.

d. It is expected that the student will be assigned to work in various phases of the operation and perform various tasks consistent with normal operations in the organization.

e. Employer is required to provide a written evaluation of the student. It is suggested the evaluation be done at some time during the final month of the ORH 4941 term. An evaluation form is attached for employer’s convenience and should be returned to the department.

f. Since this is a practical learning experience, the supervisor (or his delegate) may be considered to be functioning as a teacher and an equitable amount of time should be given to answering questions explaining the reasons for certain operations. In short, educating the student in an informal way as the opportunity arises.
Plant Science Major’s duties:

a. Coordinate placement of PLS4941 students.

b. Exercise supervision through on-site visitation by the PLS4941 advisor or designate.

c. Inform and educate employers of the objectives of the PLS4941 program.

d. Evaluate student’s performance for the purpose of assigning a grade.

e. Credit will be assigned on the basis of one credit per month, or major portion thereof, of full time work experience, not to exceed three credits.

Any problems that come up for either the student or the employer related to the progress of a program will be immediately referred to the PLS4941 Advisor:

Amy Alexander  
Internship Coordinator  
Plant Science Major  
P.O. Box 110670  
University of Florida  
Gainesville, Florida 32611  
352 273-4573  
FAX 352 392-3870  
amyalex@ufl.edu
APPENDIX A – PLS4941 Program

REPORT OUTLINE

1. PHYSICAL PLANT
   a. Description and evaluation of physical plant
   b. Sketch of physical plant layout (photographs or brochures optional)
   c. Critique and suggestion for improvement, if any, of physical plant

2. PERSONNEL
   a. Number of full time employees
   b. Number of part time employees
   c. Working hours and conditions
   d. Employee benefits program
   e. Organization chart and/or arrangement of levels of supervision
   f. Evaluation of personnel practices

3. OPERATIONS
   a. Outline the main operations performed by the organization.
   b. Attach a daily log of the job tasks you performed during your ORH 4941 term. This should be a short summary of what tasks you perform each day. One to two sentences or a short paragraph legibly written is adequate.

4a. PRODUCTION
   a. List the crops (and quantities) produced by the organization and relate similarities and/or differences between the technical information learned in University classes and production practices observed.
   b. Relate similarities and/or differences between the technical information learned in University classes and the fertilization practices observed.
   c. Relate similarities and/or differences between the technical information learned in University classes and the practices observed in media preparation and handling.
   d. Compare pest control problems and practices observed to technical information learned in University classes.

4b. LANDSCAPE MAINTENANCE / INSTALLATION
   a. List the types of maintenance / installation jobs performed by firm (commercial, residential, resort).
   b. Relate similarities and/or differences between the technical information learned in University classes and the installation and maintenance practices observed.
   c. Relate similarities and/or differences between the technical information learned in University classes and the practices observed in plant preparation and handling prior to installation.
   d. Compare pest control problems and practices observed to technical information learned in University classes.

4c. PUBLIC GARDENS
   a. Choose from 4a and 4b where appropriate

5. HARVESTING AND MARKETING
   a. Outline and evaluate the harvesting and/or marketing procedures observed.
   b. If the main function of the employing organization is not plant sales, discuss the methods used to maintain or increase business activity.
APPENDIX B – PLS4941 Program

TASK CHECKLISTS

**Container or Landscape Production Facility or General Greenhouse Operation** (check where applicable)

___ 1. preparing media
___ 2. potting
___ 3. spacing plants
___ 4. pinching (specify crops)
___ 5. sticking cuttings (specify crops)
___ 6. preparing fertilizer stock solutions
___ 7. maintenance of irrigation system
___ 8. preparing and applying pesticide sprays
___ 9. preparing and applying pesticide aerosols (bombs)
___ 10. preparing and applying growth regulators
___ 11. weeding
___ 12. maintenance of cooling system/heating system
___ 13. staking and tying plants
___ 14. sleeving and packaging plants
___ 15. loading delivery trucks
___ 16. delivery of orders
___ 17. disbudding
___ 18. spot watering
___ 19. moving plants
___ 20. disinfecting benches, tools, etc.
___ 21. applying black cloth or aid in maintenance of mechanized black cloth systems
___ 22. assist in application and/or removal of poly or saran covering
___ 23. mow weeds around greenhouse and nursery area
___ 24. application of soil fumigants
___ 25. application of herbicides
___ 26. preparation and application of soil drenches
___ 27. Root pruning
___ 28. Root Ball Preparation
___ 29. other (please specify)

Revised June 2013
### Landscape/Botanical Gardens

<table>
<thead>
<tr>
<th></th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>pruning: shrubs, trees</td>
</tr>
<tr>
<td>2</td>
<td>weeding</td>
</tr>
<tr>
<td>3</td>
<td>spraying</td>
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<tr>
<td>4</td>
<td>planting bed design</td>
</tr>
<tr>
<td>5</td>
<td>planting bed layout</td>
</tr>
<tr>
<td>6</td>
<td>planting bed installation</td>
</tr>
<tr>
<td>7</td>
<td>mulching</td>
</tr>
<tr>
<td>8</td>
<td>soil analysis</td>
</tr>
<tr>
<td>9</td>
<td>soil preparation</td>
</tr>
<tr>
<td>10</td>
<td>potting</td>
</tr>
<tr>
<td>11</td>
<td>pinching (specify crop)</td>
</tr>
<tr>
<td>12</td>
<td>preparing and applying pesticide sprays</td>
</tr>
<tr>
<td>13</td>
<td>preparing and applying pesticide aerosols</td>
</tr>
<tr>
<td>14</td>
<td>preparing and applying growth regulators</td>
</tr>
<tr>
<td>15</td>
<td>watering</td>
</tr>
<tr>
<td>16</td>
<td>set up displays</td>
</tr>
<tr>
<td>17</td>
<td>catalog inventory – plant database</td>
</tr>
<tr>
<td>18</td>
<td>consumer contact/membership</td>
</tr>
<tr>
<td>19</td>
<td>tour guide</td>
</tr>
<tr>
<td>20</td>
<td>work in executive offices</td>
</tr>
<tr>
<td>21</td>
<td>work in finance office/fund raising</td>
</tr>
<tr>
<td>22</td>
<td>work in gift shop/garden shop</td>
</tr>
<tr>
<td>23</td>
<td>work in admissions</td>
</tr>
<tr>
<td>24</td>
<td>work in herbarium</td>
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<tr>
<td>25</td>
<td>work in library</td>
</tr>
<tr>
<td>26</td>
<td>involved in educational archives</td>
</tr>
<tr>
<td>27</td>
<td>involved in research activities</td>
</tr>
<tr>
<td>28</td>
<td>work with specific plant collections</td>
</tr>
<tr>
<td>29</td>
<td>work with seed collector/index seminum (seed list)</td>
</tr>
<tr>
<td>30</td>
<td>work with volunteer services</td>
</tr>
</tbody>
</table>

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Research

1. collect samples
2. clean seeds
3. seed scarification
4. prepare media
5. sterilize instruments
6. data research: web, library, journals
7. photo documentation
8. tissue culture
9. tissue transfer
10. apical meristem extraction
11. sterilization procedures
12. use and effect of hormones
13. re-establish propagules into greenhouse
14. conservation and restoration
15. conduct experiments
16. data collection
17. data organization
18. data reporting
19. other
EVALUATION

Company (Employer) Name: ____________________________________________

Length of Internship: ________________________________________________

Year and Term of Internship: __________________________________________

Draw a circle around the number that corresponds with the intern’s performance in the following areas:

<table>
<thead>
<tr>
<th>Area</th>
<th>Poor</th>
<th>Below Average</th>
<th>Average</th>
<th>Above Average</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reliable and reported to work daily and on time</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Accepts responsibility for all tasks assigned</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Seeks additional responsibility or takes on additional tasks</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Cooperates with others and supports department and co-workers</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Looks out for the safety and well being of self and others</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Has a positive attitude and accepts suggestions easily</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Is productive and completes all tasks assigned in a timely manner</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Uses good judgment when executing assigned tasks</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Overall learning process</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>
Supervisor’s Remarks

1. Please remark on progress that occurred in the student’s performance

2. The employee has/has not (circle one) been sufficiently safety conscious during this rating period. If not, explain.

3. Would you recommend the student for future employment in the Horticulture industry?

4. Other Remarks:

__________________________________________
Student’s Name  ____________________________________________
Student’s Signature  Date

__________________________________________
Supervisor’s Name and Title  ____________________________________________
Supervisor’s Signature  Date

Please return to: Internship Coordinator, PO Box 110670, University of Florida, Gainesville, FL 32611-0670 or fax to 352 392-3870

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