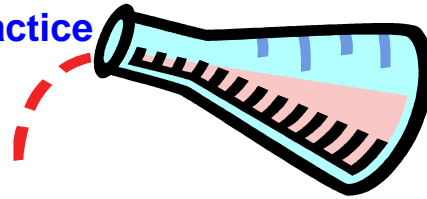


Science With Practice



A Learning & Work Experience
Program in Research & Related
Laboratories
Iowa State University

Expectations and Requirements

Student Learning Outcomes

1. Acquire technical agriculture skills specific to the experience program site placement.
2. Develop organizational and planning skills related to research and other experiences.
3. Develop skills related to:
 - Data collection
 - Research procedures
 - Written & oral communication
 - Human resource management
 - Teaching/instructing others
 - Critical analysis of data/situations
4. Use structured learning process as a link to more in-depth understanding of the role of research in higher level technical courses.
5. Develop personal experiential linkages between technical science/research and practice in real situations.
6. Link course work in the major with relevant experience.

Requirements of Students

1. Discuss with mentor the goals, expectations, and learning outcomes for your project.
2. Conduct up to 20 hours of experiential learning and work experience per week
3. Develop a log of activities describing the experience (bi-weekly entries).
4. Attend classes and the poster presentation.
5. Develop a portfolio of selected materials from the experience.
6. Develop, organize, and conduct a poster presentation on the experience at the end of the semester.
7. Assist in evaluating the program by completing selected evaluation forms.
8. Develop a list of competencies or skills that were either enhanced or newly added to the student's skills set.
9. Submit all the materials and activities listed above for a course grade and to receive academic credit.

Project Requirements

Participation and Communication (20%)

This portion of your grade includes attendance and participation in the class as well as participation in the poster presentation at the end of the experience. Another portion of this grade consists of timely communication and feedback as requested. You will be expected to meet with a SWP team member at least once during the semester. Participation in the workplace will be evaluated by your mentor.

Journal of Activities and Assignments (20%)

A bi-weekly journal of your activities related to your work and learning experiences is expected. The journal can include listing what you did at work for the week, thoughts or questions that you had, issues that need to be addressed, progress that you may be making related to your goals and expectations as outlined in the agreement. This is your own, personal diary of your learning, experiences, and thoughts. There are also bi-weekly assignments incorporated into your grade.

Final Report and Reflection on your Experience (20%)

Write a final report reflecting on your entire semester experience. Use the learning agreement that was developed and your journals to summarize what you have learned and how you have developed through this experience. Focus the report on your development related to the goals and expectations outlined in the agreement. Share what you have learned through the work experience since the start of the project. Also share how this experience and what you learned will benefit you in the future. Finally, develop a list of skills or competencies that were either enhanced or newly added as a part of your skill set.

Presentation (20%)

You will be expected to make a formal presentation to all student and faculty involved in the Science With Practice program at the end of the semester. Expectations and guidelines will be provided. The focus of your presentation should be on what agreements were made and what progress was made related to the goals and expectation. Also be sure to include what you gained from the experience.

Portfolio (20%)

You will be expected to turn in a portfolio using a three ring binder provided by SWP. Organize the binder into sections: Learning Agreement, Journals, Final Report and Reflection, Poster (paper copy of PowerPoint and notes), Assignments, Resume Entry, Thank-you note, and Miscellaneous (communications, notes, etc.)