Your college experience begins with finding the right major. One that sparks your interests, builds on your talents and leads you to the career you’ve always wanted. The Science with Practice program gives you the opportunity to build upon your interests and career goals.

Students work closely with faculty and staff on a specific project, gaining hands-on experience relevant to their chosen career path while receiving academic credit and money for the work.
Brooke Bodensteiner, Biology
Dr. Fred Janzen, adviser

Brooke explored the influence of hydric conditions during incubation on phenotypic traits of hatchling painted turtles.

Matching funds provided by Science with Practice program
Better trained and informed workforce
More open communication lines with student employees
Opportunity to attract and develop student interest in research and related professional activities

“The program provides a structured research experience for the student and opportunity for members of my laboratory and myself to work with some of the future innovators and leaders in our discipline. For the students, the opportunity to earn credit and money is a win-win situation. For faculty members, having 50 percent of the student’s salary paid for is a major draw to the program.”

- Dr. Stephanie Hansen, assistant professor, animal science
SCIENCE WITH PRACTICE
A LEARNING AND WORK EXPERIENCE PROGRAM
IN RESEARCH AND RELATED LABORATORIES

Funded by the ISU Agricultural Endowment Board
and College of Agriculture and Life Sciences
What is Science with Practice?

Purpose:
A learning and work experience program in research and related laboratories.

The purpose of Science with Practice (SWP) is to provide opportunities for students in the College of Agriculture and Life Sciences to learn and work experientially with faculty and staff in university research laboratories, farms, greenhouses, and other units through a planned education and work experience program.

SWP links students with work experiences within the College of Agriculture and Life Sciences so that they can gain hands-on experience while attending college. Students are able to learn about research and related professional practices while they earn money and academic credit!
Student benefits.

Learning outcomes

• Acquire technical agricultural and related sciences skills
• Develop skills related to:
  « Data collection
  « Research procedures
  « Human resource management
  « Written and oral communication
  « Time management
  « Organization
  « Team work
  « Data analysis
• Develop an understanding of the linkages between research and practical real-world situations and problems

Requirements for academic credit

• Develop a signed learning agreement outlining the purpose, goals and expectations
• Conduct up to 15 hours of experiential learning and work experience per week
• Attend SWP classes (AgEds 312)
• Submit bi-weekly journal entries reflecting on activities and experiences
• Create a portfolio and report as a summary of the SWP experience
• Develop and participate in a poster presentation

www.ageds.iastate.edu/content/science-practice-swp
Start your adventure in the College of Agriculture and Life Sciences.

Get **Started**.

Alec Paup, Agricultural Studies  
Carly Cummings, adviser  
Alec worked to develop a marketing plan for both product lines of Agriculture Concepts: TrackTill and CADEN Edge tillage sweeps.

- Contact Science with Practice Team (swpteam@iastate.edu)
- Establish mentor/mentee relationship
- Complete and submit application found on the program website.
- Create a student learning agreement
- Register for Science with Practice course (AgEds312) to earn academic credit
- Accomplish the goals of the program and the individualized learning agreement

Jacob House, Agronomy  
Andrea Basche, adviser  
Jacob worked on a part of the Sustainable Corn Project examining the differences between cash crop yields, soil moisture, and soil nutrients when cover crops are present.