

INTERDISCIPLINARY COURSES (CALS) (INTER-AG)

INTER-AG 1 – COOPERATIVE EDUCATION PROGRAM

1 credit.

Full-time work experience which combines classroom theory with practical knowledge of operations to provide students with a background upon which to base a professional career.

Requisites: Consent of instructor

Course Designation: Workplace - Workplace Experience Course

Repeatable for Credit: Yes, unlimited number of completions

Learning Outcomes: 1. Apply classroom knowledge to authentic work experiences

Audience: Undergraduate

INTER-AG 117 – GREENHOUSE ROOTS SEMINAR

1 credit.

Challenges Greenhouse residents to think deeply about themselves and their place in the social and biophysical communities of which they are a part. Reflect on the meaning(s) of "sustainability" and consider how lifestyle and career choices impact other people and the environment. Discover the deep history of sustainability in Wisconsin and learn more about current sustainability initiatives on the UW-Madison campus and in the greater Madison Area. Introduces resources, skills, and knowledge that support a successful transition to college.

Requisites: None

Course Designation: Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, for 2 number of completions

Last Taught: Spring 2026

Learning Outcomes: 1. Discuss the concept of sustainability in the context of complex interactions among humans and between humans and the non-human world from a variety of perspectives

Audience: Undergraduate

2. Describe the attributes of a healthy, mutually beneficial relationship with the place they live in and the members of their community

Audience: Undergraduate

3. Assess, articulate, and acknowledge personal skills, abilities, and growth areas in the pursuit of sustainability

Audience: Undergraduate

4. Integrate intellectual concepts and values-based knowledge to formulate a personalized approach to sustainability

Audience: Undergraduate

5. Identify UW-Madison programs, resources, and services that will support their academic studies and co-curricular involvement

Audience: Undergraduate

INTER-AG 140 – CALS QUICKSTART: FOUNDATIONS

1 credit.

Gain exposure to the College of Agricultural and Life Sciences (CALS) and UW-Madison, including resources and opportunities available as well as the foundational skills necessary for a successful transition to campus. Modules focus on your personal, academic, and professional development. Reflect on your goals and engage with peers to develop a roadmap for your own Wisconsin Experience.

Requisites: None

Repeatable for Credit: No

Last Taught: Summer 2025

Learning Outcomes: 1. Articulate your strengths and reflect on how they manifest across different aspects of your academic, personal, and professional experience

Audience: Undergraduate

2. Understand core campus values and the purpose of a liberal education and relate these concepts to real-life examples

Audience: Undergraduate

3. Gain a baseline understanding of social identity and ways to expand your perspective/develop empathy for identities outside your own

Audience: Undergraduate

4. Explore the CALS Priority Themes and understand how many academic and career pathways can converge around a singular theme

Audience: Undergraduate

5. Develop strategies to anticipate and successfully navigate any college transition-related challenges you may face

Audience: Undergraduate

6. Apply knowledge of campus resources and opportunities to set attainable goals for your first-year and beyond

Audience: Undergraduate

INTER-AG 155 – ISSUES IN AGRICULTURE, ENVIRONMENT, AND LIFE SCIENCES

1 credit.

Explore important issues in the application of science that cut across all majors in the College of Agricultural and Life Sciences, and that are critical for society in coming decades. Develop academic skills and explore majors and careers.

Requisites: None

Course Designation: Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2026

Learning Outcomes: 1. Identify resources and services available through CALS and UW-Madison

Audience: Undergraduate

2. Describe skills of a successful college student, such as organizational and study skills, critical thinking skills, appropriate interactions with peers/instructors, etc.

Audience: Undergraduate

3. Reflect on academic, career, and personal goals

Audience: Undergraduate

4. Discuss complex issues related to agriculture, environment, and life sciences with peers and instructors, considering multiple evidence-based perspectives

Audience: Undergraduate

INTER-AG 175 – WISE SEMINAR

1 credit.

Women in Science and Engineering (WISE) learning community seminar, with speakers drawn from all fields of math, science, and engineering on campus. Learn about research on campus and discuss the impact of research on daily life.

Requisites: Member of Women in Science & Engineering (WISE) Residential Learning Community

Course Designation: Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, for 2 number of completions

Last Taught: Spring 2026

Learning Outcomes: 1. Identify resources and services available through CALS, the College of Engineering, and UW-Madison

Audience: Undergraduate

2. Apply the skills of a successful college student, including the ability to engage in professional conversations with peers, instructors, and successful female scientists and engineers

Audience: Undergraduate

3. Reflect on academic, career, and personal goals while building a supportive community with your WISE peers

Audience: Undergraduate

4. Identify resources and strategies that will support your long-term professional success, such as building a strong professional resume and acquiring job search skills

Audience: Undergraduate

5. Discuss complex issues faced by women in science, technology, and engineering

Audience: Undergraduate

6. Identify the ways in which gender can affect career and work goals

Audience: Undergraduate

7. Reflect on the role of diversity, equity and inclusion at the University of Wisconsin

Audience: Undergraduate

INTER-AG/INTER-LS 250 – UNDERGRADUATE RESEARCH EXPERIENCE

1-3 credits.

Participation in research or creative endeavor led by faculty or instructional staff. May include participation in research discussion groups, critiques of readings, and preparation of written or oral reports.

Requisites: Member of Undergraduate Research Scholars Program

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2026

INTER-AG 288 – INTRODUCTORY CALS HONORS SEMINAR

1 credit.

Learn the basics of being a researcher: the scientific community (papers, etiquette, grants), ethics, career options, using the scientific literature, and preparation of research proposals.

Requisites: Declared in a College of Agricultural and Life Sciences (CALS) Honors program

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

Repeatable for Credit: No

Last Taught: Spring 2026

Learning Outcomes: 1. Identify and connect with research opportunities across disciplines in the College of Agricultural and Life Sciences (CALS)
Audience: Undergraduate

2. Describe the structure and expectations of undergraduate research at UW-Madison

Audience: Undergraduate

3. Demonstrate scientific literacy and critical reading skills by finding, analyzing, and interpreting primary and secondary research articles

Audience: Undergraduate

4. Communicate scientific ideas effectively to different audiences, including peers, mentors, and the general public, using appropriate formats and strategies

Audience: Undergraduate

INTER-AG 321 – STUDY ABROAD PRE-DEPARTURE SEMINAR

1 credit.

Explores topics and issues related to a specific theme and region or country of the world, ensuring a foundation of knowledge and understanding for the hands-on experiences as part of an instructor-led study abroad program.

Requisites: Consent of instructor

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2026

Learning Outcomes: 1. Explain cultural theories, stumbling blocks to intercultural communication, and demonstrate new knowledge and attitudes to successfully complete a study abroad experience.

Audience: Undergraduate

2. Describe your home and host culture, people, and places.

Audience: Undergraduate

3. Prepare for living, traveling, and studying in a new environment.

Audience: Undergraduate

4. Demonstrate an understanding of culture shock and reflect on ways of managing the effects.

Audience: Undergraduate

5. Explain successful practices to remain healthy and ensure safety while abroad.

Audience: Undergraduate

INTER-AG 340 – CAREER AND LEADERSHIP DEVELOPMENT FOR INTERNS

1 credit.

Career development process including: the job search, resume and cover letter writing, networking, inclusive workplaces, and conflict resolution. Synthesize internship experience and peers' internship experiences within the larger context of personal and professional goals, strengths, and values.

Requisites: Consent of instructor

Course Designation: Workplace - Workplace Experience Course

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2026

Learning Outcomes: 1. Synthesize and reflect on internship experience, as well as relate that experience to peers, in an effort to better understand new areas of work, and potential career interests

Audience: Undergraduate

2. Articulate personal and professional goals based on the internship experience.

Audience: Undergraduate

3. Relate the role of interests, skills, strengths, values, and experiences to the career decision-making process.

Audience: Undergraduate

4. Create and tailor professional writing related to the job search process.

Audience: Undergraduate

INTER-AG 375 – SPECIAL TOPICS

1-4 credits.

Topics of current interest to undergraduates.

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2026

INTER-AG 388 – CALS HONORS - FUNDAMENTALS OF RESEARCH SEMINAR

1 credit.

Introduction and exploration of the fundamentals of research: scientific process, utilization of scientific literature, and preparation of research proposals. Provides an environment external to the student's research experience that will help them grow as researchers.

Requisites: INTER-AG 288

Course Designation: Honors - Honors Only Courses (H)

Repeatable for Credit: No

Last Taught: Spring 2026

Learning Outcomes: 1. Apply the scientific method and formulate research questions effectively.

Audience: Undergraduate

2. Effectively read and objectively critique a published scientific article.

Audience: Undergraduate

3. Develop and write a research proposal.

Audience: Undergraduate

INTER-AG 397 – INTERNATIONAL INTERNSHIP OR RESEARCH IN THE SCIENCES

1-6 credits.

Provides an area equivalency for science internship or research taken on UW-Madison approved study abroad programs. Current enrollment in a UW-Madison study abroad program.

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

Learning Outcomes: 1. Apply concepts learned in coursework to authentic professional/research situations

Audience: Undergraduate

2. Identify and reflect on how concepts learned in coursework apply to specific research or internship settings and situations

Audience: Undergraduate

INTER-AG/NUTR SCI 421 – GLOBAL HEALTH FIELD EXPERIENCE

1-4 credits.

Specialized educational experiences that address a broad range of global health topics through interdisciplinary approaches to health and include participation in applied public health activities or service learning projects with communities and partner organizations.

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2026

Learning Outcomes: 1. Collaborate and communicate effectively with diverse colleagues and local partners.

Audience: Undergraduate

2. Respectfully engage with different cultures or populations.

Audience: Undergraduate

3. Articulate the importance of interdisciplinary approaches to global health and/or sustainable development.

Audience: Undergraduate

4. Demonstrate knowledge on a specific global health issue, community, and location.

Audience: Undergraduate

INTER-AG 488 – HONORS RESEARCH SEMINAR

1 credit.

Development and evaluation of undergraduate research proposals, discussion of best practices for gaining admission to graduate programs and identifying effective mentors, exploration of career opportunities for research in the public and private sectors, and interaction with seniors who have successfully completed the CALS Honors in Research program.

Requisites: INTER-AG 388**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2026

Learning Outcomes: 1. Develop a competitive research proposal and convey its scientific merit and broader impact to scientific reviewers and funding agencies

Audience: Undergraduate

2. Find strong graduate programs and identify effective faculty mentors, such that they can develop as young scientists and realize their career goals

Audience: Undergraduate

3. Overcome the fear of failure and avoid common pitfalls, such that they can achieve professional success and work-life balance in their future endeavors

Audience: Undergraduate

4. Evaluate the pros and cons of various types of research careers, including academic institutions, federal laboratories, corporate research and development settings, and startup companies

Audience: Undergraduate

5. Develop an outline for the senior honors thesis, including research plan and timeline

Audience: Undergraduate

INTER-AG 494 – COMMUNITY RESOURCE NAVIGATOR: SERVICE LEARNING

1-2 credits.

Engage in direct work with clients through the Community Resource Navigator Program and develop a better understanding of how social determinants of health affect peoples' lives. Partner with clients to identify social and legal services, assist them in connecting to needed resources, follow up to be sure that the connection was made and evaluate the quality of the resources provided.

Requisites: INTER-AG 473**Repeatable for Credit:** Yes, for 3 number of completions**INTER-AG 681 – SENIOR HONORS THESIS**

2-4 credits.

First semester of individual study for undergraduate students in a CALS Honors program completing a thesis, as arranged with a faculty member.

Requisites: Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2026

Learning Outcomes: 1. Apply classroom knowledge to develop research proposal

Audience: Undergraduate

2. Assess state of research in a field of study and develop research questions or hypotheses

Audience: Undergraduate

3. Translate research questions into research design

Audience: Undergraduate

INTER-AG 682 – SENIOR HONORS THESIS

2-4 credits.

Second semester of individual study for undergraduate students in a CALS Honors program completing a thesis, as arranged with a faculty member. INTER-AG 681

Requisites: Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2026

Learning Outcomes: 1. Apply classroom knowledge to research

Audience: Undergraduate

2. Use research methods to answer questions or hypotheses developed in INTER-AG 681

Audience: Undergraduate

3. Write a research thesis

Audience: Undergraduate