

# AGRICULTURAL SCIENCES (AGRI)

## AGRI 42 International or Professional Development Experience

**Description:** Cooperative education in an established or organized international or professional development experience program in any College of Agricultural Science and Natural Resources curriculum. AGRI 42 requires permission from the College of Agricultural Sciences and Natural Resources (CASNR) Dean's Office and the department chair of the student's degree program.

**Credit Hours:** 0

**Max credits per semester:**

**Max credits per degree:**

**Grading Option:** Pass No Pass

## AGRI 103 Introduction to Agricultural and Natural Resource Systems

**Crosslisted with:** NRES 103

**Description:** Agricultural and natural resource systems. The interrelationship and the impact of increased human involvement on these systems.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL/SPR

## AGRI 115 Biotechnology: Food, Health and Environment

**Description:** Application of biotechnology to genetically engineer, identify, select or propagate microbes, plants or animals. Scientists who use biotechnology to solve problems with the environment, with our food system, or with human health.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**ACE:** ACE 4 Science

## AGRI 192 AgFutures Seminar

**Prerequisites:** Permission

**Notes:** Seminar course intended for students in the AgFutures Learning Community.

**Description:** Exploration of critical societal issues relevant to food, agriculture, natural resources, and rural landscapes, and application of strategies to analyze complex issues. Exploration of personal goals for service, leadership, and civic engagement. Exploration of the land-grant university mission. Developing strategies for holistic success as a student.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 2

**Grading Option:** Pass No Pass

**Offered:** FALL/SPR

## AGRI 200 Introduction to Pesticides and Their Use

**Description:** Overview of pesticide uses and alternatives that influence the management of pest populations. Factors that must be considered in making decisions to utilize pesticides, including state and federal legal requirements. Completion of course will satisfy state and federal requirements for certification of private applicators applying "restricted use pesticides." Two field trips.

**Credit Hours:** 1-2

**Min credits per semester:** 1

**Max credits per semester:** 2

**Max credits per degree:** 2

**Grading Option:** Graded with Option

## AGRI 205 Career Opportunities in Applied Sciences

**Description:** For Applied Science students to select an appropriate internship, formulate career goals, develop a resume, and improve academic success skills.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

## AGRI 282 Introduction to Global Agricultural and Natural Resources Issues

**Description:** Overview of global relationships in agriculture and natural resources that affect Nebraska, the United States, and the world. Emphasis on gaining perspectives of the social, technological, economic, environmental, and political issues impacting the world food system.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**ACE:** ACE 9 Global/Diversity

## AGRI 299H Honors Thesis Seminar

**Prerequisites:** Admission to the University Honors Program.

**Description:** Preparation for conducting an undergraduate project to be used for an Honors or undergraduate thesis. Students explore philosophical aspects of scientific inquiry, including history, the scientific method, and ethics in science. Topics such as individual approaches to research, the selection of projects, time commitments and sources of funding for scholarly work presented by University faculty.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded

## AGRI 310 Study Tours in International Agriculture

**Description:** Individual or group educational experience combining classroom lectures, discussions, and/or seminars with tours to broaden the student's knowledge of specific aspects of agriculture in some foreign country. Choice of subject matter and coordination of on- and off-campus study is at the discretion of the instructor.

**Credit Hours:** 1-5

**Min credits per semester:** 1

**Max credits per semester:** 5

**Max credits per degree:** 5

**Grading Option:** Graded with Option

**ACE:** ACE 9 Global/Diversity

**Experiential Learning:** Education Abroad

**AGRI 311 Study Tours in US Agriculture****Prerequisites:** Permission.**Description:** Individual or group educational experience combining classroom lectures, discussions, and/or seminars with off-campus tours to broaden the student's knowledge of specific aspects of US agriculture. Choice of subject matter and coordination of on- and off-campus study is at the discretion of the instructor.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Graded with Option**Course and Laboratory Fee:** \$300**Experiential Learning:** Fieldwork**AGRI 375 Innovations for Agriculture****Crosslisted with:** PLAS 375, EAEP 375**Prerequisites:** Junior or Senior class standing.**Description:** Explore sustainability challenges in plant and animal agricultural systems, assess current solutions, and identify opportunities for innovation. Research, develop, prototype, test, and pitch an innovative product, service, or technology for agriculture.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** FALL**AGRI 388 Employment Seminar****Crosslisted with:** NRES 388**Prerequisites:** Sophomore standing.**Description:** Efficient job-hunting. Resumes, cover letters, mock interviews, and dining etiquette.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Pass No Pass**Course and Laboratory Fee:** \$25**AGRI 389 Agricultural Concerns Seminar****Description:** Forum for the exchange of current information on rural issues and agricultural ethics. Includes guest speakers, film documentaries, group discussions, and panel discussions.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 2**Grading Option:** Pass No Pass**AGRI 395 Applied Science Internship****Prerequisites:** instructor permission**Description:** Internship experiences for applied science students. Students will collaborate with a faculty mentor to contract plan of work and complete reflection on experience.**Credit Hours:** 1-3**Min credits per semester:** 1**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Pass No Pass**Experiential Learning:** Internship/Co-op**AGRI 400 Job Survival****Prerequisites:** Junior standing. AGRI/NRES 388 recommended.**Description:** Job satisfaction, advancement strategies, benefits, and relocation.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Pass No Pass**AGRI 462 Invasive Pests and International Trade****Crosslisted with:** AGRI 862**Notes:** Offered fully online.**Description:** Examination of the global issue of the impact of invasive pests on international trade, food production, and ability to feed increasing populations in the future. Focus on how local changes have biological, economic and social consequences at the global level and impact sustainability. Covers pest introductions and pathways, impact on global agriculture and trade, principles and practices in agricultural pest risk analysis and international cooperation.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**AGRI 485 Investigations in Applied Science****Prerequisites:** Senior standing; completion of applied science degree core requirements.**Description:** Application and integration of scientific principles and knowledge gained from courses, peer to peer and student to faculty discussions, internships, and other aspects of the applied science degree program.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**ACE:** ACE 10 Integrated Product**AGRI 488 Teaching Undergraduate Science****Crosslisted with:** AGRI 888, SCIL 488, SCIL 888**Description:** The dynamics of undergraduate student learning. Begin to develop the reflective practice of progressive instructional improvement. Interpreting improved educational outcomes in terms of the ability of the instructor to manipulate undergraduate student interactions with instructional materials in an active learning environment.**Credit Hours:** 1**Max credits per semester:** 1**Max credits per degree:** 1**Grading Option:** Graded with Option**Offered:** FALL**AGRI 496 Independent Study in Agricultural Sciences****Crosslisted with:** AGRI 896**Prerequisites:** Advanced approval of the plan of work and permission.**Description:** Individual or group projects in activities such as research, literature review, extension of course work, or preparation of teaching materials.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 12**Grading Option:** Graded with Option