

# DEPARTMENT OF AGRICULTURAL EDUCATION AND 4-H YOUTH DEVELOPMENT

James J. Connors, Dept. Chair (Agricultural and Extension Education Bldg., P.O. Box 442040, 1134 West 6th, 83844-2040; phone 208/885-6358; [Iriesenb@uidaho.edu](mailto:Iriesenb@uidaho.edu); [aee.ag.uidaho.edu/](http://aee.ag.uidaho.edu/)). Faculty: James J. Connors, Lou E. Riesenber, Allison J.L. Touchstone, Kattlyn J. Wolf. Affiliate Faculty: Rebecca Brown, Robert J. Haggerty. Adjunct Faculty: Michael G. Rush.

The mission of the Department of Agricultural Education and 4-H Youth Development includes teaching, research, and service. The specific objectives of the department are: (1) to prepare educators for employment in teaching agriculture and extension programs; (2) to provide service and direction to FFA in Idaho; (3) to prepare for careers in general learning/ranching or entry level positions in agricultural industry and agribusiness; (4) to provide an opportunity for graduate study in the areas of agricultural and extension education; (5) to assist in providing inservice education for agricultural educators in Idaho; (6) to provide service to related agencies and organizations for the support of education and the development of human resources; (7) to conduct quality research in agricultural and extension education; (8) to assist in maintaining viable agricultural education programs; and (9) to assist in the development of information and instructional materials for the support of agricultural educators and extension personnel.

Courses in animal science, agricultural economics, agricultural mechanics, entomological science, plant science, horticulture, and soil science will prepare graduates to teach these areas as secondary agriculture instructors or develop educational programs as county extension faculty. The agricultural education curriculum is approved by the State Board for Professional-Technical Education. Graduates who have completed a minimum of 28 credits in agricultural education and who meet the state certification requirements for a standard secondary teaching certificate are qualified to teach secondary agriculture. Government and agribusiness agencies that seek persons with training in agriculture and education provide employment opportunities for graduates of this curriculum. Courses provide students an opportunity to develop employment opportunities in teaching agriculture, cooperative extension, and agribusiness occupations.

The department provides opportunities for professional growth and development to agricultural educators through a planned program of graduate study. The pursuit of an M.S. degree allows for the development of problem-solving skills through scientific investigation of appropriate research topics. Graduate work in agricultural and extension education is offered with the opportunity for students to elect options in agricultural sciences, extension education, professional-technical teacher education, international agricultural education, or other areas that parallel their career goals. Because of the diversity of research efforts by departmental faculty members, a graduate student has a wide variety of specializations from which to choose a thesis topic. Students with this degree are well prepared to move into a job market or to pursue a Ph.D. program at another institution.

Admission to a graduate program requires an undergraduate degree with a major in agricultural education or a closely related field. The department may require the Graduate Record Examination if there is insufficient information available to indicate that the student will be successful in graduate work.

The department welcomes inquiries about its programs and suggests that anyone interested in possible pursuit of a degree in agricultural and extension education should contact the department (telephone 208/885-6358).

## Courses

See course description section for courses in Agricultural Education (AgEd) and Agricultural Science and Technology (Ag).

## Agricultural Education and 4-H Youth Development Undergraduate Curricular Requirements

### Agricultural Education (B.S.Ag.Ed.)

Required course work includes the university requirements (see regulation J-3) and the following:

This major is approved by the State Board of Professional-Technical Education for the preparation of high school agriculture instructors. Graduates who have completed at least 28 credits in agricultural education, and who meet the state certification requirements for a Standard Secondary Teaching Certificate, are eligible to teach secondary agricultural science and technology in Idaho. Students must be admitted to the Teacher Education Program, which requires a grade-point average of at least 2.75, before being allowed to enroll in upper-division teacher education courses and participate in student teaching. The Idaho teaching certificate transfers to most states in the US. In addition, government and business agencies and the Cooperative Extension System that seek persons with education in both agriculture and education provide employment opportunities for graduates of this curriculum.

AgEd 180	Introduction to Agricultural Education (1 cr)
AgEd 351	Principles and Philosophy of Professional-Technical Education (3 cr)
AgEd 358	Supervising FFA and SAE Programs (3 cr)
AgEd 451	Communicating in Agriculture (3 cr)
AgEd 452	Methods of Teaching Agriculture (4 cr)
AgEd 453	Program Planning in Secondary and Adult Ag Education (3 cr)
AgEd 454	Facilities Organization and Management (2 cr)
AgEd 460	Practicum: Secondary School Teaching in Agriculture (10 cr)
AgEd 461	Student Teaching Portfolio (2 cr)
AgEd 470	Proseminar in Agricultural Education (2 cr)
ASM 107	Beginning Welding (2 cr)
ASM 202	Agricultural Shop Practices (2 cr)
ASM 210	Small Engines (2 cr)
ASM 407	Advanced Welding (1 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
Econ 202	Principles of Economics (3 cr)
EDCI 201	Contexts of Education (2 cr)
EDCI 301	Learning, Development, and Assessment (3 cr)
EDCI 463	Literacy Methods for Content Learning (3 cr)
EDSP 300	Educating for Exceptionalities (2 cr)
Engl 313	Business Writing or
Engl 317	Technical Writing (3 cr)
Psyc 101	Introduction Psychology (3 cr)

One course from the following (3-4 cr):

Math 130	Finite Math (3 cr)
Math 143	Pre-calculus Algebra & Analytical Geometry (3 cr)
Math 160	Survey of Calculus (4 cr)
Math 170	Analytical Geometry & Calculus I (4 cr)

Ag electives, which include a minimum of 6 cr in Ag Econ, 6 cr in Animal Sci, 6 cr in Plant Sci, 3 cr in Horticulture, and 4 cr in Soils (40 cr)  
Natural and applied science electives, which include Chem 101 and Biol 115 (16 cr)

Courses to total 132 credits for this degree

### Agricultural Science, Communication and Leadership (B.S.Ag.L.S.)

Required course work includes the university requirements (see regulation J-3) and:

#### Agricultural and Life Science Core

ASM 305	GPS and Precision Agriculture (3 cr)
---------	--------------------------------------

Biol 115	Cells and the Evolution of Life (4 cr)
Chem 101	Introduction to Chemistry I <b>or</b>
Chem 111	Principles of Chemistry I (4 cr)
Comm 101	Fundamentals of Public Speaking (2 cr)
Engl 313	Business Writing <b>or</b>
Engl 317	Technical Writing (3 cr)
Soil 205	The Soil Ecosystem (3 cr)
Stat 251	Statistical Methods (3 cr)

One of the following (3-4cr):

Math 130	Finite Mathematics (3 cr)
Math 143	Pre-calculus Algebra and Analytic Geometry (3 cr)
Math 160	Survey of Calculus (4 cr)
Math 170	Analytic Geometry and Calculus I (4 cr)

#### **Agricultural Science, Communication and Leadership Courses**

Acct 201	Introduction to Financial Accounting (3 cr)
AgEc 278	Farm and Agribusiness Management (4 cr)
AgEc 289	Agricultural Markets and Prices (3 cr)
AgEd 180	Introduction to Agricultural Education (1 cr)
AgEd 406	Exploring International Agriculture (2 cr)
AgEd 450	Developing Leaders (2 cr)
AgEd 451	Communicating in Agriculture (3 cr)
AgEd 498	Internship (5-10 cr)
Econ 202	Principles of Economics (3 cr)
Additional Natural and Applied Sciences (8 cr)	
Upper-Division Agricultural Economics elective (3 cr)	

One of the following (18 cr)

Nine credits in two different subject areas chosen from Agricultural System Management (ASM), Animal and Veterinary Science (AVS), Entomology (Ent), Family and Consumer Science (FCS), Food Science (FS), Plant Science (PISc), and Soils (Soil).

12 credits in one subject area chosen from Agricultural System Management (ASM), Animal and Veterinary Science (AVS), Entomology (Ent), Family and Consumer Science (FCS), Food Science (FS), Plant Science (PISc), and Soils (Soil) **and** Six credits from a Foreign Language.

Communication Electives including one upper-division course (12 cr):

Comm 233	Interpersonal Communication (3 cr)
Comm 235	Organizational Communication (3 cr)
Comm 332	Communication and the Small Group (3 cr)
Comm 410	Conflict Management (3 cr)
Comm 431	Applied Business and Professional Communication (3 cr)
JAMM 121	Media Writing (3 cr)
JAMM 252	Introduction to Public Relations (3 cr)

Leadership Electives (12 cr):

AgEd 181	Introduction to Extension Education (1 cr)
AgEd 252	Developing Community and Collegiate Organizations (3 cr)
AgEd 359	Developing 4-H Youth Programs (2 cr)
AgEd 448	Foundations of Extension Education (2 cr)
Bus 311	Introduction to Management (3 cr)
Bus 413	Leadership and Organizational Behavior (3 cr)
Bus 418	Organization Design and Changes (3 cr)
CSS 486	Public Involvement in Natural Resource Management (3 cr)
CSS 491	Wilderness Leadership for Personal Growth (3 cr)
MS 101	Introduction to Military Science (1 cr) <b>and</b>
MS 111	Leadership Lab (1 cr)
MS 102	Fundamentals of Leadership and Management (1 cr) <b>and</b>
MS 112	Leadership Lab (1 cr)
MS 201	Applied Leadership and Management (2 cr) <b>and</b>
MS 211	Leadership Lab (1 cr)
MS 202	Applied Leadership and Management (2 cr) <b>and</b>
MS 212	Leadership Lab (1 cr)
Rec 254	Camp Leadership (3 cr)
Rec 320	Outdoor Recreation Leadership (2 cr)

**Courses to total 128 credits for this degree**

## **Agricultural Education and 4-H Youth Development Academic Minor Requirements**

### **Agricultural Extension Education Minor**

AgEd 180	Introduction to Agricultural Education (1 cr)
AgEd 181	Introduction to Extension Education (1 cr)
AgEd 359	Developing 4-H Youth Programs (2 cr)
AgEd 446	Youth Education in Agriculture (2 cr)
AgEd 447	Adult Education in Agriculture (2 cr)
AgEd 448	Foundations of Extension Education (3 cr)
AgEd 450	Developing Leaders (2 cr)
AgEd 451	Communicating in Agriculture (3 cr)
AgEd 498	Internship (6 cr)

**Courses to total 20 credits for this minor**

### **Agricultural Education and 4-H Youth Development Undergraduate Academic Certificates Requirements**

### **Agricultural Education and 4-H Youth Development Graduate Degree Program**

Candidates must fulfill the requirements of the College of Graduate Studies and of the Department of Agricultural Education and 4-H Youth Development. See the College of Graduate Studies section for the general requirements applicable to the M.S. degree.

Both thesis and non-thesis options are offered. The M.S. (non-thesis) is a terminal program designed to provide a broader preparation than the M.S. with thesis. Of the minimum of 30 credits required under the non-thesis option, at least 18 must be in courses at the 500s level and the remainder may include 400s level courses in the majors and 300s and 400s level courses in supporting areas. A professional paper is optional at the discretion of the candidate's supervisory committee. A comprehensive examination is required which may be written and/or oral.

# AGRICULTURAL EDUCATION COURSES

*James J Connors, Dept. Chair, Dept. of Agricultural Education and 4-H Youth Development (Agricultural and Extension Education Bldg., 1134 West 6th 83844-2040; phone 208/885-6358; Iriesenb@uidaho.edu).*

## **AgEd 140 Introduction to Organizational and Personal Leadership Development (1 cr)**

This course is designed to introduce the student to important concepts in organizational and personal leadership development. Topics will include organizational leadership, citizenship, and cooperation, personal development, employee/employer relations, and group and individual interpersonal communications skills.

## **AgEd 158 Introduction to Supervised Agricultural Experience Programs (1 cr)**

This course is designed to introduce the student to important concepts in conducting and organizing supervised agricultural experience projects related to secondary agricultural education classroom and local FFA chapter. Topics will include project planning, goal setting, budgeting, record keeping, basic technical writing, project/program evaluation, employability skills, citizenship, employee/employer relations, and group and individual interpersonal communication skills. (Spring only)

## **AgEd 159 Introduction to the FFA Organization (1-2 cr)**

This course is designed to introduce the student to important concepts in conducting, organizing, and competing in activities inherent in the Idaho and National FFA Organizations as an outgrowth of the secondary agricultural education classroom instruction and coupled with a successful supervised agricultural experience program. Topics will include parliamentary procedure, FFA History and activities, public speaking and communications, project planning, goal setting, budgeting, record keeping, basic technical writing, project/program evaluation, employability skills, citizenship, employee/employer relations, and group and individual interpersonal communication skills. (Spring only)

## **AgEd 160 Survey of the Expectations and Responsibilities of Teaching High School Agriculture (1 cr, mx 2)**

This course is designed for high school students interested in pursuing a career in agricultural education and will serve as a bridge class between high school and collegiate level teacher education courses. The course will include an exploration of the professional qualities and expectations of the teacher/educator. Roles, responsibilities and challenges in the field of education, leadership, and communication will be examined.

## **AgEd 180 Introduction to Agricultural Education (1 cr)**

Overview of the goals, mission, and purpose agricultural education programs in High Schools. Course content will include topics related to career opportunities in Agricultural Education, key issues facing agricultural education programs in high schools at the local, state, and national levels; the importance of agricultural education to society; and the role of the agricultural educator in schools and communities. (Fall only)

## **AgEd 181 Introduction to Extension Education (1 cr)**

Overview of goals, mission and purpose of Cooperative Extension System. Career opportunities in the Extension System; role of Cooperative Extension faculty; basic principles and practices of the Cooperative Extension System including related legislation. (alt/yrs)

## **AgEd 252 Developing Community and Collegiate Organizations (3 cr)**

Assisting community, collegiate, or social organization members, officers, or committee chairs to better serve the organization and to acquire practical organizational and management skills that will help them throughout their academic and professional careers. Basic knowledge and skills related to parliamentary procedure and the orderly conduct of meetings will also be covered. (Alt/odd yrs)

## **AgEd 299 (s) Directed Study (cr arr)**

## **AgEd 351 Principles and Philosophy of Professional-Technical Education (3 cr)**

Overview and interpretation of history, aims, and purposes of public education and professional-technical education, issues and programs comprising professional-technical education in Idaho and the U.S.

## **AgEd 358 Supervising FFA and SAE Programs (3 cr)**

Role of secondary agriculture instructors in supervising FFA and Supervised Agricultural Experience programs. One lecture and one 2-hr lab a week. (Fall only)

*Prereq: Agricultural Education major, and Permission*

*Prereq or Coreq: AgEd 180*

## **AgEd 359 Developing 4-H Youth Programs (2 cr)**

Planning, development, and leadership principles of 4-H/youth program; role of 4-H/youth educator and volunteer leader. Web-based course.

## **AgEd 400 (s) Seminar (cr arr)**

## **AgEd 404 (s) Special Topics (cr arr)**

## **AgEd 406 Exploring International Agriculture (3 cr)**

General overview of agriculture around the world and the opportunity to develop an in-depth knowledge of agriculture in a country or region of student's choice. (Spring only)

*Prereq: Junior or Senior standing; and AgEd 180, ASM 112, or Soil 205; or Permission*

## **AgEd J446/J546 Youth Education in Agriculture (2 cr)**

Theories, principles and practices associated with effective teaching and learning for youth in non-formal settings such as 4-H meetings, conferences, and conventions. Practicum element required. Additional assignments required for graduate credit. (Spring, alt/yrs)

## **AgEd J447/J547 Adult Education in Agriculture (2 cr)**

Opportunity to study some of the basic problems and values in working with adult groups. Attention given to problem of fitting adult educational programming into public school programs and other educational programs as well as to methods of teaching adults. Credit earned in AgEd 547 by completing a in-depth project. (Spring, alt/yrs)

## **AgEd J448/J548 Foundations of Extension Education (2 cr)**

Philosophy and principles, social and economic significance of extension education in agricultural and life sciences and the examination of behavioral science concepts in organization, development, and management of extension programs. Credit earned in AgEd 548 by completion of in-depth paper or project on some aspect of extension programming. (Fall, alt/yrs)

## **AgEd J450/J550 Developing Leaders (2 cr)**

An action-oriented, participatory examination of aspects of "leadership." Designed to stir students' excitement about becoming leaders in school, home, and community; help students develop enthusiasm and interest in focusing on their vision for the future; individual and group activities allow students to identify their leadership philosophy, enhance their strengths, and improve on their weaknesses. Additional projects/assignments reqd for grad cr. (Alt/yrs, Spring only)

## **AgEd 451 Communicating in Agriculture (3 cr)**

Principles and practices of disseminating knowledge and information related to agricultural sciences, environment, and natural resources to clients and the general public; communications concepts, technology, and presentation skills that will help agricultural and natural resource professionals communicate effectively within their chosen profession. (Alt/yrs, spring only)

## **AgEd 452 Methods of Teaching Agriculture (4 cr)**

Procedures of identifying and selecting instructional methods and materials, planning, and student evaluation criteria to effectively teach agriculture. (Fall only)

*Prereq: AgEd 180, Agricultural Education major, and Permission*

*Prereq or Coreq: AgEd 358*

## **AgEd 453 Program Planning in Secondary and Adult Agricultural Education (1 or 3 cr)**

Planning, organizing, and implementing secondary and adult programs in agriculture. Includes only the adult section of the course when taken for 1 cr. Class taught on an accelerated schedule. This course is to be taken during the student teaching semester. (Spring only)

*Prereq: AgEd 180, Agricultural Education major, and Permission*

*Prereq or Coreq: AgEd 358*

**AgEd 454 Facilities Organization and Management (2 cr)**

Applications of efficient planning, organizing, and teaching skills reqd in management of lab and shop facilities.

*Prereq:* AgEd 180, Agricultural Education major, and Permission

*Prereq or Coreq:* AgEd 358

**AgEd 460 Practicum: Secondary School Teaching in Agriculture (10 cr)**

Ten wks of practical experience student teaching in secondary agriculture program; in addition each student will be expected to complete one wk of early field-based experience at his or her student teaching center, to be completed the first wk of school after Jan. 1. (Spring only)

*Prereq:* Admission to the Teacher Education Program, and perm of dept

**AgEd 461 Student Teaching Portfolio (2 cr)**

Summary of the 10-week practicum experience; a notebook portfolio to include unit lesson plans, daily teaching plans, videotape example of teaching, report of early field experience, daily journal, summary of 10 positive and 10 challenging teaching experiences, supervisory assessments of teaching by cooperating instructor and university supervisor, and cooperating teacher's final evaluation. (Spring only)

**AgEd 470 Proseminar in Agricultural Education (1 cr, max 2)**

Professional issues in agricultural education. Fall semester includes additional 8-hour Saturday session for CPR and first aid training.

*Prereq:* Admission to Teacher Education Program, or Permission of department

**AgEd 498 (s) Internship (1-10 cr, max 10)**

Formalized learning experience in an actual work setting. Students work in an agriculturally related organization or agency and commit to a minimum of 40 hours of supervised work per semester credit. Requires completion of a formal proposal.

*Prereq:* Junior or Senior standing; GPA of 2.75 and Permission

**AgEd 499 (s) Directed Study (cr arr)**

**AgEd 500 Master's Research and Thesis (cr arr)**

**AgEd 501 (s) Seminar (cr arr)**

**AgEd 502 (s) Directed Study (cr arr)**

**AgEd 503 (s) Workshop (cr arr)**

**AgEd 504 (s) Special Topics (cr arr)**

**AgEd 546 Youth Education in Agriculture (2 cr)**

See AgEd J446/J546.

**AgEd 547 Adult Education in Agriculture (2 cr)**

See AgEd J447/J547.

**AgEd 548 Foundations of Extension Education (3 cr)**

See AgEd J448/J548.

**AgEd 550 Developing Leaders (2 cr)**

See AgEd J450/J550.

**AgEd 560 Beginning Teacher Induction in Agricultural Education (1 cr, max 2)**

On-site clinical supervision, technical assistance, and leadership to beginning teachers of secondary agricultural education programs.

**AgEd 562 Instructional Methods in Agricultural Education (3 cr)**

Innovations and advanced principles in teaching methods and materials.

**AgEd 598 (s) Internship (cr arr)**

**AgEd 599 (s) Non-thesis Master's Research (cr arr)**

Research not directly related to a thesis or dissertation.

*Prereq:* Permission

# AGRICULTURAL SCIENCE AND TECHNOLOGY COURSES

---

*James J Connors, Dept. Chair, Dept. of Agricultural and Extension Education (Agricultural and Extension Education Bldg., 1134 West 6th- 83844-2040; phone 208/885-6358; Iriesenb@uidaho.edu).*

---

**Prerequisite:** Enrollment in courses in this subject field requires permission of the department.

## **Ag 210 Living on the Land (3 cr)**

The course is designed to provide adults with information and skills to implement Best Stewardship Practices on small acreages in the Treasure Valley. After attending this course, participants will have basic knowledge and skills to: implement an inventory of the resources on their small acreage; understand soils, soil interactions and do basic soil testing; understand water, water interactions and do basic water testing; understand plants, plant interactions and do basic forage testing; understand whole farm and/or ranch systems thinking and understand human-animal-soil-plant-water interactions. Participants will also be able to share information about stewardship for small acreages with others in their community.

## **Ag 212 Junior Master Gardener Teacher Preparation (3 cr)**

This course is primarily presented as a non-formal Extension education program for learners who will be teaching in the Junior Master Gardener Program. After attending this course, participants will have basic knowledge and resources to provide leadership and instruction for the Idaho Junior Master Gardener Program. Participants will also be able to share information about horticulture, community gardening, youth development, youth recognition, and JMG activities with others in their community.

## **Ag 299 (s) Directed Study (cr arr)**

## **Ag 398 (s) Internship (1-6 cr, max 6)**

Graded P/F.

*Prereq: Permission*

## **Ag 400 (s) Seminar (cr arr)**

## **Ag 404 (s) Special Topics (cr arr)**

## **Ag 494 CALS Peer Mentors (1 cr)**

The CALS Peer Mentors provides students the opportunity to further develop leadership and mentoring skills through a variety of activities involving recruitment, campus outreach, and new student mentoring. The objective is to welcome new students to college life; create awareness of the academic programs; and be available to guide students. Graded A/Pass/Fail.

## **Ag 495 (s) CALS Ambassadors (cr arr)**

Student ambassadors are selected through an application and interview process to represent CALS to future students at recruiting activities and functions. Students will learn skills in leadership, communication, networking, public speaking, and time management. Students will be responsible for visiting high schools, attending college and career fairs, recruiting events on campus.

## **Ag 499 (s) Directed Study (cr arr)**

# INDEX

---

## A

- Agricultural Education (B.S.Ag.Ed.) • 1
- Agricultural Education and 4-H Youth Development Academic Minor Requirements • 2
- Agricultural Education and 4-H Youth Development Graduate Degree Program • 2
- Agricultural Education and 4-H Youth Development Undergraduate Academic Certificates Requirements • 2
- Agricultural Education and 4-H Youth Development Undergraduate Curricular Requirements • 1
- Agricultural Education Courses • 3
- Agricultural Extension Education Minor • 2
- Agricultural Science and Technology Courses • 5
- Agricultural Science, Communication and Leadership (B.S.Ag.L.S.) • 2

## D

- DEPARTMENT OF AGRICULTURAL EDUCATION AND 4-H YOUTH DEVELOPMENT • 1