AGRICULTURAL EDUCATION

Jason Emmert
174 Bevier Hall
905 South Goodwin Avenue
Urbana, IL 61801
PH: (217) 333-3165
http://www.aged.illinois.edu

Major in Agricultural Leadership and Science Education

For the Degree of Bachelor of Science with a Major in Agricultural Leadership and Science Education

This curriculum prepares students for positions requiring expertise in formal and non-formal education. Examples include teaching agriculture in the public schools; cooperative extension work; training and program development; and other education-related positions in agricultural and environmental agencies and businesses.

A minimum of 126 hours is required for graduation. Students pursuing this major select from two concentrations: agricultural leadership education or agricultural science education. Students completing the agricultural science education concentration will be eligible for Illinois teacher certification in agricultural education, and will have instruction in key pedagogical areas as well as agriculture. For teacher education requirements applicable to all curricula, see the Council on Teacher Education (www.cote.illinois.edu/ (http://www.cote.illinois.edu)).

For the Degree of Bachelor of Science with a Major in Agricultural Leadership and Science Education

- Agricultural Leadership Education Concentration (http://catalog.illinois.edu/undergraduate/aces/ag-education/agricultural-leadership-education-concentration)
- Agricultural Science Education Concentration (http://catalog.illinois.edu/undergraduate/aces/ag-education/agricultural-science-education-concentration)

Prescribed Courses including Campus General Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHET 105</td>
<td>Writing and Research &amp; CMN 101</td>
<td>6-7</td>
</tr>
<tr>
<td>CMN 111</td>
<td>Oral &amp; Written Comm I &amp; CMN 112</td>
<td>3</td>
</tr>
</tbody>
</table>

Advanced Composition

Select from campus approved list. AGED 230 is recommended.

Cultural Studies

Select one Western cultures course, one non-Western cultures course and one U.S. minority cultures course from campus approved lists.

Quantitative Reasoning I

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 124</td>
<td>Finite Mathematics</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Calculus for Business I</td>
</tr>
</tbody>
</table>

Quantitative Reasoning II

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ACE 261</td>
<td>Applied Statistical Methods</td>
</tr>
<tr>
<td>CPSC 241</td>
<td>Intro to Applied Statistics</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Economic Statistics I</td>
</tr>
<tr>
<td>PSYC 235</td>
<td>Intro to Statistics</td>
</tr>
<tr>
<td>SOC 280</td>
<td>Intro to Social Statistics</td>
</tr>
<tr>
<td>STAT 100</td>
<td>Statistics</td>
</tr>
</tbody>
</table>

Natural Sciences and Technology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>General Chemistry I &amp; CHEM 103</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>General Chemistry Lab I</td>
</tr>
<tr>
<td>Physical science - select from campus approved list.</td>
<td>3-4</td>
</tr>
<tr>
<td>CPSC 112</td>
<td>Introduction to Crop Sciences</td>
</tr>
</tbody>
</table>

Humanities and the Arts

Select from campus approved list. 

Social and Behavioral Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ACE 100</td>
<td>Agr Cons and Resource Econ</td>
</tr>
<tr>
<td>PSYC 100</td>
<td>Intro Psych</td>
</tr>
</tbody>
</table>

ACES Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE 101</td>
<td>Contemporary Issues in ACES</td>
</tr>
</tbody>
</table>

Agricultural Leadership and Science Education Required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGED 100</td>
<td>Intro to Ag &amp; Leadership Ed 1</td>
</tr>
<tr>
<td>AGED 220</td>
<td>Prog Del in Ag &amp; Leadership Ed</td>
</tr>
<tr>
<td>AGED 230</td>
<td>Leadership Communications</td>
</tr>
<tr>
<td>AGED 421</td>
<td>Teaching Strategies in AGED</td>
</tr>
</tbody>
</table>

Required Concentration

42-55

Total Hours

126

1 Not required for transfer students.

AGED Class Schedule (https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/AGED)

Courses

AGED 100  Intro to Ag & Leadership Ed credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/AGED/100)
Overview of agricultural and leadership education career pathways in school and non-school settings, including extension, corporate and government sectors, and international and industry organizations. Includes overview of certification requirements, professional development, and current issues for agricultural education professionals.

AGED 199  Undergraduate Open Seminar credit: 1 to 5 Hours. (https://courses.illinois.edu/schedule/terms/AGED/199)
An experimental course on a special topic in agricultural education. May be repeated in the same or separate terms as topics vary to a maximum of 12 hours.
AGED 220  Prog Del in Ag & Leadership Ed  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/220)
Introduces formal and non-formal methods used to deliver education and training in agricultural and leadership education programs. Focuses on types and purposes of agricultural education, program components, principles of teaching and learning, community relationships, and reflective teaching. Technology-supported lab component provides skills needed to develop teaching and training materials.

AGED 230  Leadership Communications  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/230)
Application of communication skills used in the dissemination of information by public or organizational leaders in contemporary times. Founded on empirical leadership studies and through use of experiential learning activities, presentations, projects, and examinations, students will consider how identity and the setting impact what they write, say, and do when communicating a message. This course satisfies the General Education Criteria for:
  Advanced Composition
  Social Beh Sci - Soc Sci

AGED 250  Observation and Program Analys  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/250)
Early field experience in agricultural education, including observation and analysis activities in public schools, extension programs, or other selected settings; participation in clinical field experience activities; examination of educational program development and operation, teaching and learning processes, contextual factors in learning, evaluation of student learning; and professionalism. Approximately 45 hours of early field experience will be acquired. Off-campus observation begins the first week of January. Agricultural education programs in both school and non-school settings are examined. Prerequisite: AGED 220; concurrent enrollment in EDPR 203.

AGED 260  Intro to Leadership Studies  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/260)
Study of leadership theories and their application to the development of leadership skills. Students develop a personal philosophy of leadership, prepare a development plan for enhancing leadership skills, and begin a portfolio to record their leadership growth. Explores topics concerning diversity, ethics, and leadership/follower roles. This course satisfies the General Education Criteria for:
  Social Beh Sci - Soc Sci

AGED 280  Training Needs Assessment  credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/AGED/280)
Students in this course will be equipped to analyze an employee and/or organization's performance to determine the training needs for a business or organization. Helps learners determine whether or not training is the solution to a job performance problem.

AGED 293  Ag Leadership Internship  credit: 1 to 6 Hours. (https://courses.illinois.edu/schedule/terms/AGED/293)
Supervised off-campus experience in a field directly pertaining to subject matter in agricultural leadership education. Approved for S/U grading only. May be repeated in the same or subsequent terms to a maximum of 12 hours.

AGED 295  Independent Study or Research  credit: 1 to 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/295)
Individual research, special problems, thesis, development and/or design work under the supervision of an appropriate member of the faculty. May be repeated in the same or subsequent terms.

AGED 300  Training and Development  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/300)
Students will learn to assess, design, develop, implement, and evaluate a training program in agricultural and non-agricultural industries. Topics will emphasize the theory of training and development, methods of assessing training needs and learning styles, design of effective training, presentation skills, and program evaluation. Different types of training programs will be examined, including orientation, skills training, team building, management development, and diversity training. Students will create and present a training program for an actual client utilizing the training design process. Prerequisite: AGED 280.

AGED 310  Prof Dev in Leadership Ed  credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/AGED/310)
Provides agricultural leadership education students with non-formal professional experiences prior to enrollment in the student internship. A minimum of 32 hours of observation and participatory experiences with professionals in extension/outreach, business and industry, political and/or communications/human resources are required for satisfactory completion of this class.

AGED 340  Leadership Ethics & Pluralism  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/340)
Theory and research in leadership ethics and multicultural competence in a leadership context. Students will examine the underpinning of multiculturalism and identity development, and how both affect leadership practice. Also explores issues of power, oppression, privilege and the responsibilities of leadership. Integrates both ethics and multiculturalism through the examination of cases that include topics such as globalization, immigration, etc. Prerequisite: AGED 260. This course satisfies the General Education Criteria for:
  Cultural Studies - US Minority

AGED 350  Early Field Experience  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/350)
Supervised experience during the summer months and fall semester including: supervision of students' agricultural experience programs and projects; development of problem-solving and decision-making skills related to use of instructional technologies, management of FFA activities, and supervision of agricultural experiences; review of teacher certification requirements and application for teacher certification; development of online teacher certification portfolio meeting state, UIUC, and program requirements. A minimum of 50 hours or early field observation is required. Prerequisite: AGED 250.

AGED 360  Advanced Leadership Studies  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/360)
Examines current and emerging leadership theories and their practical application in real-world settings. Continues exploration of advanced leadership theories begun in AGED 260, and includes opportunities for self-assessment and person leadership development. Prerequisite: AGED 260. This course satisfies the General Education Criteria for:
  Social Beh Sci - Soc Sci

AGED 380  Leadership in Groups and Teams  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/380)
Theory and practice of group and team leadership, including leadership assessment, group dynamics, group process, goal-setting, conflict management and resolution, leadership skill development, and case study analyses. Students engage in group activities throughout the semester. Prerequisite: AGED 260 and completion of the General Education Composition I requirement.

Information listed in this catalog is current as of 06/2018
AGED 396  Honors Research or Thesis  credit: 1 to 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/396)
Individual research, special problems, thesis, development and/or design work under the direction of the Honors advisor. May be repeated in the same or subsequent terms. Prerequisite: Junior standing, admission to the ACES Honors Program.

AGED 400  Foundations of Ag & Extn Ed  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/400)
Comparative examination of the mission, purpose, and historical foundations of agricultural and extension education. Topics include review of agricultural education programs and delivery systems, the nature of teaching in school and non-school settings, and trends and developments in agricultural education. Also examines teacher characteristics and approaches to teaching, education program components, community relationships, and reflective teaching. 3 undergraduate hours. 3 graduate hours.

AGED 410  Grad Early Field Experience  credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/AGED/410)
An introduction to the application of pedagogy through early field experiences in agricultural education. Students participate in eight weeks of instruction and 40 hours of participatory experiences in approved agricultural education programs. Off-campus observation begins the first week of January. Restricted to graduate students in the teacher education option. 2 undergraduate hours. 2 graduate hours. Prerequisite: Concurrent enrollment in EDPR 203.

AGED 420  Curr Design & Instruction  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/420)
This instructional methodology course provides students the opportunity to analyze the principles of learning and teaching as they influence the academic motivation of learners in formal and non-formal environments within agricultural, food and environmental sciences. Topics include: the understanding and implementation of psychological aspects of learning, planning and development of agricultural courses and curricula, creating teaching plans, managing positive learning environments, evaluating student learning, and the utilization of effective self-reflective teaching behaviors. 3 undergraduate hours. 3 graduate hours. Prerequisite: AGED 220 for majors; consent of instructor for non-majors.

AGED 421  Teaching Strategies in AGED  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/421)
Synthesis of principles of teaching and learning as they influence educational activities in formal and non-formal environments within agricultural and related sciences. Gives individuals an opportunity to apply the educational concepts covered in AGED 300 or AGED 420. Individuals will design, implement, and evaluate learner-centered approaches in a variety of simulated educational environments. 3 undergraduate hours. 3 graduate hours. Prerequisite: AGED 300 or AGED 420 or graduate standing.

AGED 430  Youth Development Programs  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/430)
Instruction in the youth development process, including learning; philosophy and purposes of youth development policies, programs, and organizations; relationships to organizational missions; principles and procedures for developing, coordinating, and implementing youth development programs; and examining research and practice in youth-at-risk initiatives. 3 or 4 undergraduate hours. 3 or 4 graduate hours. Prerequisite: AGED 220, or HDFS 105, or PSYC 100.

AGED 440  Foundations of Ag Extn Ed  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/AGED/440)
This course will focus on understanding and then applying the Adaptive Leadership Model in relevant executive and supervisory contexts in professional organizations (industry, non-profit, community development). Enrolled students will have the opportunity to examine current cases of both adaptive and technical challenges facing agriculturally-focused organizations, as well as research and examine cases they choose themselves. The overarching goal of this course is to provide students the opportunity to practice skills relevant for leading fast-paced complex organizations in agriculture using the Adaptive Leadership Model. No undergraduate credit. 1 or 4 graduate hours. Prerequisite: AGED 260 or graduate standing.

AGED 450  Program Delivery and Eval  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/450)
Students complete this course during their twelve-week practice teaching or internship experience. Written assignments will focus on development of teaching plans, program initiation and improvement plans, and actual evaluation studies of agricultural education programs. Instruction will be provided during on-site faculty visits and by cooperating personnel. 4 undergraduate hours. 4 graduate hours. Prerequisite: AGED 420.

AGED 451  Professional Dev in Ag Ed  credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/AGED/451)
Analysis of teaching and learning processes, program evaluation and improvement strategies, curriculum development and modification, professional development, facility development, using community resources, program management, and discussion of trends and issues in agricultural education. 2 undergraduate hour. 2 graduate hour. Prerequisite: Senior standing.

AGED 460  Advanced Leadership Studies  credit: 1 or 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/460)
Leadership operates within the context of community. The course will teach the research, theory, and practice of building effective community collaborations to deal with complex societal issues. A collaborative framework will be delivered by which students apply their knowledge of person, organizational, and community leadership to real-world problems. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: AGED 260 or equivalent.

AGED 490  Adult Learning Principles  credit: 3 or 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/490)
Theory and practice of adult learning including: overview of teaching and learning theory related to adults; core adult learning principles; individual and situational learning differences; goals and purposes for learning; and the future of adult learning. 3 undergraduate hours. 4 graduate hours.

AGED 499  Seminar  credit: 1 to 4 Hours. (https://courses.illinois.edu/schedule/terms/AGED/499)
Special topics in agricultural education. 1 to 4 undergraduate hours. 1 to 4 graduate hours. May be repeated in the same or subsequent terms to a maximum of 12 undergraduate or graduate hours as topics vary.

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