Agricultural Education, Communications and Technology (AECT)

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Agricultural Education, Communications and Technology Website (http://aeed.uark.edu/)

The department of agricultural education, communications and technology offers a degree program with four concentrations that lead to a Bachelor of Science in Agriculture. Students may choose one of four areas of concentration, or, with adviser's approval, select courses from more than one concentration area.

- The Agricultural Education concentration is designed for students who wish to receive initial teacher licensure to teach agricultural science in public schools.
- The Agricultural Communications concentration is designed to produce graduates with both technical knowledge about the food and fiber industry and the communication skills needed to convey the story of agriculture to consumers, policy makers, and the public. Interpersonal and group communication, public relations, graphic design, electronic communication, communications campaign planning, and writing for the media are emphasized in this program.
- The Agricultural Systems Technology Management concentration is for students who are planning a professional career related to technical operations and management in the agricultural industry. Graduates assume positions of leadership and responsibility in such areas as agricultural services and sales, agricultural management, agricultural production systems, product service, product testing, and service management. The program focuses on preparing students as problem solvers in the application, management and/or marketing of agricultural technology.
- The Agricultural Leadership concentration incorporates interdisciplinary coursework that focuses on leadership and ethics in food and fiber systems, with courses offered from multiple disciplines. Interdisciplinary courses benefit students by offering different insights to problem solving, fostering collaboration with students from other majors, and reinforcing the importance of teamwork.

Students with this major are in constant demand due to the rapidly changing educational needs of the agricultural and natural resources industries. Graduates with this degree have a broad knowledge of agricultural disciplines. They are prepared as agricultural technology transfer specialists to enter a variety of careers in formal and non-formal teaching roles in either the public or private sector as agricultural educators, extension agents, industry-based trainers, information specialists, or technology-management specialists.

The department also offers programs for four minors: Agricultural Education, Agricultural Communications, Agricultural Systems Technology Management, and Agricultural Leadership.

Requirements for a Major in Agricultural Education, Communication and Technology (AECT)

The state minimum core (http://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) and discipline specific general education (http://catalog.uark.edu/undergraduatecatalog/gened/generaleducation/) requirements:

(Course work that meets state minimum core requirements is in bold.)

University Perspectives		**1**
UNIV 10051	University Perspectives	
Communications		**6**
Select English University Core Courses		
U.S. History or Government		**3**
Select U.S. History or Government University Core Courses		
Mathematics		**3**
MATH 11003	College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 11103)	
Physical & Biological Science		**11**
BIOL 10103 & BIOL 10101	**Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)**	
CHEM 12103 & CHEM 12101	**Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)**	
Science or Math Elective (3 hours)		
Fine Arts/Humanities		**6**
Choose from 3 hours Fine Arts and 3 hours Humanities from University Core		
Social Science		**9**
AGEC 11003	**Principles of Agricultural Microeconomics**	
or AGEC 21	**Principles of Agricultural Macroeconomics**	
PSYC 20003	**General Psychology (ACTS Equivalency = PSYC 1103)**	
Choose 3 hours Social Science from University Core		
AECTBS Requirements		**30**
ASTM 16103	Fundamentals of Agricultural Systems Technology	
ASTM 29003	Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 31303	Instructional and Presentation Strategies	
ACOM 31403	Communicating Agriculture to the Public	
or ACOM 31413	Honors Communicating Agriculture to the Public	
AGLE 31503	Leadership Development in Agriculture	
or AGLE 31513	Honors Leadership Development in Agriculture	
AGED 41203	Issues in Agriculture	
Choose 3 hours from the following:**		
AGED 4750V	Internship in Agricultural Education (3 hours)	
or ACOM 4750V	Internship in Ag Communications	
or AGLE 4750V	Internship in Ag Leadership	
or ASTM 4750V	Internship in Ag Systems	
Choose 9 hours from the following:		
ANSC 10303	Introductory Animal Sciences	

ENSC 10003	Environmental Science	
ENTO 10203	Insects, Science and Society	
HORT 20003	Principles of Horticulture	
POSC 23403	Poultry Production	
FDSC 26003	The Science of Cooking	
PLPA 30003	Principles of Plant Pathology	
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)		**21-24**
Electives		**27-30**
Total Hours		**120**

**Internship choice should coincide with concentration declared

Requirements for a Major in Agricultural Education, Communication and Technology (AECT) with an Agricultural Communications (ACOM) Concentration

ACOM Concentration Requirements (21 plus 3 practicum hours)		**24**
JOUR 10303	Media Writing	
ACOM 21403	Introduction to Agricultural Communications and Leadership	
ACOM 32403	Ag Reporting and Feature Writing	
ACOM 39403	Professional Development in Agricultural Communications and Leadership	
ACOM 41403	Electronic Communications in Agriculture	
ACOM 42403	Graphic Design in AFLS	
ACOM 43403	Communication Campaigns in Agriculture	
ACOM 45403	Ag Publications	
Total Hours		**24**

Agricultural Education, Communication & Technology B.S.A. with Agricultural Communications Concentration Nine-Semester Degree Program

First Year	Fall	Spring	Summer
UNIV 10051 University Perspectives	1		
ASTM 16103 Fundamentals of Agricultural Systems Technology	3		
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
Elective	3		
ACOM 21403 Introduction to Agricultural Communications and Leadership		3	
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3	
JOUR 10303 Media Writing		3	
MATH 11003 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)		3	
ACOM 31403 Communicating Agriculture to the Public (Satisfies General Education Outcome 1.2) or ACOM 314H3 Honors Communicating Agriculture to the Public		3	
Year Total:	14	15	

Second Year	Fall	Spring	Summer
Satisfies General Education Outcome 3.3			
AGEC 11003 Principles of Agricultural Microeconomics (Satisfies General Education Outcome 3.3) or AGEC 21003 Principles of Agricultural Macroeconomics	3		
ASTM 29003 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
CHEM 12103 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 12101 Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[1, 2]	3		
AECTBS Core Elective	3		
Satisfies General Education Outcome 4.2:			
HIST 20003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Satisfies General Education Outcome 4.2) or HIST 20103 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 20003 American National Government (ACTS Equivalency = PLSC 2003)		3	
PSYC 20003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)		3	
Electives		6	
AECTBS Core Elective		3	
Year Total:	16	15	

Third Year			Units
	Fall	Spring	Summer
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[1, 2]	3		
Elective	6		
AECTBS Core Elective	3		
ACOM 32403 Ag Reporting and Feature Writing	3		
AGLE 31503 Leadership Development in Agriculture (Satisfies General Education Outcome 3.3) or AGLE 315H3 Honors Leadership Development in Agriculture		3	
ACOM 43403 Communication Campaigns in Agriculture		3	
Science/Math Elective		3	
Social Science University Core Elective (Satisfies General Education Outcome 3.3)[3]		3	
Elective[4]		3	
ACOM 4750V Internship in Ag Communications (Satisfies General Education Outcome 6.1)			3
Year Total:	15	15	3

Fourth Year			Units
	Fall	Spring	Summer
ACOM 39403 Professional Development in Agricultural Communications and Leadership	3		
AGED 41203 Issues in Agriculture (Satisfies General Education Outcomes 1.2 & 5.1)	3		
ACOM 42403 Graphic Design in AFLS	3		
AGED 31303 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3		
Elective[4]	3		
ACOM 41403 Electronic Communications in Agriculture		3	
ACOM 45403 Ag Publications		3	
Elective[4]		6	
Year Total:	15	12	

Total Units in Sequence:	**120**

[1] The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 10003, MUSC 10103, MUSC 101H3, MUSC 13303, THTR 10003, THTR 10103, or THTR 101H3.

[2] The Humanities Elective courses which satisfy General Education Outcome 3.2 include: AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, DANC 10003, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, ENGL 11103, ENGL 11203, or intermediate-level world language.

[3] The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include: ANTH 10203, COMM 10203, HDFS 14003, HDFS 24103, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20903, HUMN 111H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 20103, PLSC 28103, PLSC 281H3, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

[4] Students must complete 40 hours of upper division courses (30000-40000 level). It is recommended that students consult with their academic adviser when making course selections.

Requirements for a Major in Agricultural Education, Communication and Technology (AECT)

The state minimum core (http://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) and discipline specific general education (http://catalog.uark.edu/undergraduatecatalog/gened/generaleducation/) requirements:

(Course work that meets state minimum core requirements is in bold.)

University Perspectives		**1**
UNIV 10051	University Perspectives	
Communications		**6**
Select English University Core Courses		
U.S. History or Government		**3**
Select U.S. History or Government University Core Courses		
Mathematics		**3**
MATH 11003	College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 11103)	
Physical & Biological Science		**11**
BIOL 10103 & BIOL 10101	**Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)**	
CHEM 12103 & CHEM 12101	**Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)**	
Science or Math Elective (3 hours)		
Fine Arts/Humanities		**6**
Choose from 3 hours Fine Arts and 3 hours Humanities from University Core		
Social Science		**9**
AGEC 11003 or AGEC 21	**Principles of Agricultural Microeconomics Principles of Agricultural Macroeconomics**	
PSYC 20003	**General Psychology (ACTS Equivalency = PSYC 1103)**	
Choose 3 hours Social Science from University Core		
AECTBS Requirements		**30**
ASTM 16103	Fundamentals of Agricultural Systems Technology	
ASTM 29003	Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 31303	Instructional and Presentation Strategies	

ACOM 31403	Communicating Agriculture to the Public	
or ACOM 31413	Honors Communicating Agriculture to the Public	
AGLE 31503	Leadership Development in Agriculture	
or AGLE 31513	Honors Leadership Development in Agriculture	
AGED 41203	Issues in Agriculture	
Choose 3 hours from the following:**		
AGED 4750V	Internship in Agricultural Education (3 hours)	
or ACOM 4750V	Internship in Ag Communications	
or AGLE 4750V	Internship in Ag Leadership	
or ASTM 4750V	Internship in Ag Systems	
Choose 9 hours from the following:		
ANSC 10303	Introductory Animal Sciences	
ENSC 10003	Environmental Science	
ENTO 10203	Insects, Science and Society	
HORT 20003	Principles of Horticulture	
POSC 23403	Poultry Production	
FDSC 26003	The Science of Cooking	
PLPA 30003	Principles of Plant Pathology	
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)		**21-24**
Electives		**27-30**
Total Hours		**120**

**Internship choice should coincide with concentration declared

Additional Requirements for the Agricultural Education Concentration

Complete an evaluation for internship. Students must also meet the following criteria to be cleared for the internship:

1. Obtain a “C” or better in the following pre-education core courses: AGED 11203, CIED 30203/CIED 40203, and CIED 30303.
2. Obtain a “C” or better in concentration education courses: AGED 31303, ACOM 31403, AGED 42103, AGED 42303, and AGED 48403 .
3. Complete and submit the online application to teacher education through the university-wide Office of Teacher Education and pay the Teacher Education Application Fee (http://catalog.uark.edu/undergraduatecatalog/feeandcosts/othergeneralfees/). Apply to the Office of Teacher Education (https://teacher-education.uark.edu/) by Jan. 15 prior to the fall semester of the junior year. For more information, contact the Teacher Education Office in GRAD 336. Complete degree with a cumulative GPA of 2.5 or higher. The degree must be posted to your University of Arkansas transcript at the Registrar’s Office prior to certification. For more information, please contact the Office of Teacher Education in Peabody Hall (PEAH) 109.
4. Obtain departmental clearance for GPA requirements, course work requirements, an interview, and/or other requirements. Obtain clearance through an Arkansas Department of Education background check. Note: Another background check will be required prior to graduation in order to be eligible for licensure.
5. Student is aware that he/she is responsible for meeting enrollment requirements for any scholarships received and is responsible for enrolling in the proper number of hours to meet graduation requirements.

Other Certification Requirements

A. Pass Pedagogy Assessment during Internship (Minimum: Average of 2.0 or better on each Danielson (TESS) Domain)

B. Subject Matter Test Agriculture
   - Test Code 5701 — Minimum Score: 147

C. Criminal Background Check

AGED Concentration Requirements (21 plus 3 practicum hours)

AGED 11203	Foundations of Agricultural Education	3
AGED 31602	Curriculum Development and Assessment Techniques in AGED	2
AGED 31601	Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1
AGED 42103	Teachers as Professionals	3
AGED 42303	Program Development	3
AGED 4750V	Internship in Agricultural Education (3 hours - Criminal background check is required prior to student internship)	3
CIED 30203	Survey of Exceptionalities	3
or CIED 40203	Teaching in Inclusive Secondary Settings	
AGED 48403	Methods in Agricultural Laboratories	3
CIED 30303	Classroom Learning Theory	3
Total Hours		**24**

Agricultural Education, Communication & Technology B.S.A. with Agricultural Education Concentration Eight-Semester Degree Program

Students wishing to follow the degree plan should see the Eight Semester Degree Policy (http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy/) for university requirements of the program. (*See degree audit in UAConnect for complete course list.)

First Year	Units	
	Fall	Spring
UNIV 10051 University Perspectives	1	
AGED 11203 Foundations of Agricultural Education	3	
ASTM 16103 Fundamentals of Agricultural Systems Technology	3	
ENGL 10103 (Satisfies General Education Outcome 1.1)	3	
AECTBS Core Elective	3	
Electives	3	
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)		4
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3

MATH 11003 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)		3
PSYC 20003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)		3
Electives		3
Year Total:	16	16

Second Year	Fall	Units Spring
AGEC 11003 Principles of Agricultural Microeconomics (Satisfies General Education Outcome 3.3) or AGEC 21003 Principles of Agricultural Macroeconomics	3	
ASTM 29003 Agricultural and Human Environmental Sciences Applications of Microcomputers	3	
Satisfies General Education Outcome 3.4:		
CHEM 12103 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 12101 Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4	
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[1,2]	3	
Electives[4]	3	
ACOM 31403 Communicating Agriculture to the Public or ACOM 314H3 Honors Communicating Agriculture to the Public		3
HIST 20003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Satisfies General Education Outcome 4.2) or HIST 20103 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 20003 American National Government (ACTS Equivalency = PLSC 2003)		3
AECTBS Core Elective		3
Science or Math Elective		3
Electives		3
Year Total:	16	15

Third Year	Fall	Units Spring
AGLE 31503 Leadership Development in Agriculture or AGLE 315H3 Honors Leadership Development in Agriculture	3	
AGED 31602 Curriculum Development and Assessment Techniques in AGED	2	
Social Science University Core Elective (Satisfies General Education Outcomes 3.3 and 4.1)[3]	3	
Electives	6	
AGED 31303 Instructional and Presentation Strategies		3
CIED 30203 Survey of Exceptionalities or CIED 40203 Teaching in Inclusive Secondary Settings		3
AECTBS Core Elective		3
AGED 42303 Program Development		3
Electives[4]		3
Year Total:	14	15

Fourth Year	Fall	Units Spring
AGED 41203 Issues in Agriculture (Satisfies General Education Outcome 5.1)	3	
AGED 31601 Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1	
CIED 30303 Classroom Learning Theory	3	
Electives[4]	6	
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[1,2]	3	
AGED 42103 Teachers as Professionals		3
AGED 48403 Methods in Agricultural Laboratories		3
AGED 4750V Internship in Agricultural Education (Satisfies General Education Outcome 6.1) or ACOM 4750V Internship in Ag Communications or AGLE 4750V Internship in Ag Leadership or ASTM 4750V Internship in Ag Systems		6
Year Total:	16	12

Total Units in Sequence:	**120**

1 The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include:
ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 100H3, MUSC 10103, MUSC 101H3, MUSC 13303, THTR 10003, THTR 10103, or THTR 101H3.

2 The Humanities Elective courses which satisfy General Education Outcome 3.2 include:
AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, DANC 10003, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, ENGL 11103, ENGL 11203, or Intermediate-level world language (usually 20003-level).

3 The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 10203, COMM 10203, HDFS 14003, HDFS 24103, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20903, HUMN 111H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 20103, PLSC 28103, PLSC 281H3, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

4 Students must complete 40 hours of upper division courses (30000-40000 level). It is recommended that students consult with their academic adviser when making course selections.

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The state minimum core (http://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) and discipline specific general education (http://catalog.uark.edu/undergraduatecatalog/gened/generaleducation/) requirements:

(Course work that meets state minimum core requirements is in bold.)

University Perspectives		**1**
UNIV 10051	University Perspectives	
Communications		**6**
Select English University Core Courses		
U.S. History or Government		**3**
Select U.S. History or Government University Core Courses		
Mathematics		**3**
MATH 11003	College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 11103)	
Physical & Biological Science		**11**
BIOL 10103 & BIOL 10101	**Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)**	
CHEM 12103 & CHEM 12101	**Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)**	
Science or Math Elective (3 hours)		
Fine Arts/Humanities		**6**
Choose from 3 hours Fine Arts and 3 hours Humanities from University Core		
Social Science		**9**
AGEC 11003	**Principles of Agricultural Microeconomics**	
or AGEC 21	**Principles of Agricultural Macroeconomics**	
PSYC 20003	**General Psychology (ACTS Equivalency = PSYC 1103)**	
Choose 3 hours Social Science from University Core		
AECTBS Requirements		**30**
ASTM 16103	Fundamentals of Agricultural Systems Technology	
ASTM 29003	Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 31303	Instructional and Presentation Strategies	
ACOM 31403	Communicating Agriculture to the Public	
or ACOM 31413	Honors Communicating Agriculture to the Public	
AGLE 31503	Leadership Development in Agriculture	
or AGLE 31513	Honors Leadership Development in Agriculture	
AGED 41203	Issues in Agriculture	
Choose 3 hours from the following:**		
AGED 4750V	Internship in Agricultural Education (3 hours)	
or ACOM 4750V	Internship in Ag Communications	
or AGLE 4750V	Internship in Ag Leadership	
or ASTM 4750V	Internship in Ag Systems	
Choose 9 hours from the following:		
ANSC 10303	Introductory Animal Sciences	
ENSC 10003	Environmental Science	
ENTO 10203	Insects, Science and Society	
HORT 20003	Principles of Horticulture	
POSC 23403	Poultry Production	
FDSC 26003	The Science of Cooking	
PLPA 30003	Principles of Plant Pathology	
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)		**21-24**
Electives		**27-30**
Total Hours		**120**

**Internship choice should coincide with concentration declared

Requirements for a Major in Agricultural Education, Communication and Technology (AECT) with an Agricultural Leadership (AGLE) Concentration

AGLE Concentration Requirements (21 hours)		**21**
AGLE 21403	Introduction to Agricultural Communications and Leadership	
AGLE 39403	Professional Development in Agricultural Communications and Leadership	
AGLE 41503	Survey of Leadership Theory in Agriculture	
AGLE 41603	Leadership Analysis Through Film	
AGED 44403	Principles of Technological Change	
SPCH 10003	Public Speaking (ACTS Equivalency = SPCH 1003)	
AFLS 39903	Professional Growth and Critical Career Skills	
Total Hours		**21**

Agricultural Education, Communication & Technology B.S.A. with Agricultural Leadership Concentration Nine-Semester Degree Program

First Year	**Units**		
	Fall	**Spring**	**Summer**
UNIV 10051 University Perspectives	1		
ASTM 16103 Fundamentals of Agricultural Systems Technology	3		
AGLE 21403 Introduction to Agricultural Communications and Leadership	3		
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
SPCH 10003 Public Speaking (ACTS Equivalency = SPCH 1003) (Satisfies General Education Outcomes 1.2 and 5.1)		3	

ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3
MATH 11003 College Algebra (ACTS Equivalency = MATH 1103) (Satisfies General Education Outcome 2.1)		3
HIST 20003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Satisfies General Education Outcome 4.2) or HIST 20103 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 20003 American National Government (ACTS Equivalency = PLSC 2003)		3
Social Science University Core Elective (Satisfies General Education Outcomes 3.3 and 4.1)[1]		3
Year Total:	14	15

Second Year			**Units**
	Fall	**Spring**	**Summer**
AECTBS Core Elective	3		
ASTM 29003 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
Satisfies General Education Outcome 3.3:			
AGEC 11003 Principles of Agricultural Microeconomics (Satisfies General Education Outcome 3.3) or AGEC 21003 Principles of Agricultural Macroeconomics	3		
Satisfies General Education Outcome 3.4:			
CHEM 12103 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 12101 Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[2, 3]	3		
AECTBS Core Elective		3	
Satisfies General Education Outcome 1.2			
ACOM 31403 Communicating Agriculture to the Public (Satisfies General Education Outcome 1.2) or ACOM 314H3 Honors Communicating Agriculture to the Public		3	
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[2, 3]		3	
PSYC 20003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)		3	
Science or Math Elective		3	
Year Total:	16	15	

Third Year			**Units**
	Fall	**Spring**	**Summer**
AGED 31303 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3		
AGLE 39403 Professional Development in Agricultural Communications and Leadership	3		
General Electives[4]	9		
AGLE 31503 Leadership Development in Agriculture or AGLE 315H3 Honors Leadership Development in Agriculture		3	
General Electives[4]		12	
AGLE 4750V Internship in Ag Leadership (Satisfies General Education Outcome 6.1) or ACOM 4750V Internship in Ag Communications or ASTM 4750V Internship in Ag Systems or AGED 4750V Internship in Agricultural Education			3
Year Total:	15	15	3

Fourth Year			**Units**
	Fall	**Spring**	**Summer**
AGED 41203 Issues in Agriculture (Satisfies General Education Outcomes 1.2 and 5.1)	3		
AGLE 41503 Survey of Leadership Theory in Agriculture	3		
AGED 44403 Principles of Technological Change	3		
AFLS 39903 Professional Growth and Critical Career Skills	3		
AECTBS Core Elective	3		
AGLE 41603 Leadership Analysis Through Film		3	
General Electives[4]		9	
Year Total:	15	12	

Total Units in Sequence:	**120**

[1] The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include:
ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 100H3, MUSC 10103, MUSC 101H3, MUSC 13303, THTR 10003, THTR 10103, or THTR 101H3.

[2] The Humanities Elective courses which satisfy General Education Outcome 3.2 include:
AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, DANC 10003, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, ENGL 11103, ENGL 11203, or Intermediate-level world language (usually 20003-level).

[3] The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 10203, COMM 10203, HDFS 14003, HDFS 24103, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20903, HUMN 112H4, HUMN 211H4, INST 28103, INST 281H3, PLSC 20103, PLSC 28103, PLSC 281H3, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

[4] Students must complete 40 hours of upper division courses (30000-40000 level). It is recommended that students consult with their academic adviser when making course selections.

Requirements for a Major in Agricultural Education, Communication and Technology (AECT)

The state minimum core (http://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) and discipline specific general education (http://catalog.uark.edu/undergraduatecatalog/gened/generaleducation/) requirements:

(Course work that meets state minimum core requirements is in bold.)

University Perspectives		**1**
UNIV 10051	University Perspectives	
Communications		**6**
Select English University Core Courses		
U.S. History or Government		**3**
Select U.S. History or Government University Core Courses		
Mathematics		**3**
MATH 11003	College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 11103)	
Physical & Biological Science		**11**
BIOL 10103 & BIOL 10101	**Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)**	
CHEM 12103 & CHEM 12101	**Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) and Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)**	
Science or Math Elective (3 hours)		
Fine Arts/Humanities		**6**
Choose from 3 hours Fine Arts and 3 hours Humanities from University Core		
Social Science		**9**
AGEC 11003	**Principles of Agricultural Microeconomics**	
or AGEC 21	**Principles of Agricultural Macroeconomics**	
PSYC 20003	**General Psychology (ACTS Equivalency = PSYC 1103)**	
Choose 3 hours Social Science from University Core		
AECTBS Requirements		**30**
ASTM 16103	Fundamentals of Agricultural Systems Technology	
ASTM 29003	Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 31303	Instructional and Presentation Strategies	
ACOM 31403	Communicating Agriculture to the Public	
or ACOM 314H3	Honors Communicating Agriculture to the Public	
AGLE 31503	Leadership Development in Agriculture	
or AGLE 315H	Honors Leadership Development in Agriculture	
AGED 41203	Issues in Agriculture	
Choose 3 hours from the following:**		
AGED 4750V	Internship in Agricultural Education (3 hours)	
or ACOM 4750V	Internship in Ag Communications	
or AGLE 4750V	Internship in Ag Leadership	
or ASTM 4750V	Internship in Ag Systems	
Choose 9 hours from the following:		
ANSC 10303	Introductory Animal Sciences	
ENSC 10003	Environmental Science	
ENTO 10203	Insects, Science and Society	
HORT 20003	Principles of Horticulture	
POSC 23403	Poultry Production	
FDSC 26003	The Science of Cooking	
PLPA 30003	Principles of Plant Pathology	
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)		**21-24**
Electives		**27-30**
Total Hours		**120**

**Internship choice should coincide with concentration declared

Requirements for a Major in Agricultural Education, Communication and Technology (AECT) with an Agricultural Systems Technology Management (ASTM) Concentration

ASTM Concentration Requirements (21 hours)		
ASTM 31002	Small Power Units/Turf Equipment	2
ASTM 31001	Small Power Units/Turf Equipment Laboratory	1
ASTM 31703	Electricity in Agriculture	3
ASTM 42003	Mechanized Systems Management	3
AGEC 23003	Introduction to Agribusiness	3
AGEC 33003	Food and Agricultural Marketing	3
AGEC 43003	Agribusiness Marketing Management	3
Choose 3 credits from:		3
ASTM 16101	Fundamentals of Agricultural Systems Technology Laboratory	
ASTM 21203	Metals and Welding	
ASTM 31503	Surveying in Agriculture and Forestry	
ASTM 4020V	Special Topics in Agricultural Mechanization	
ASTM 49703	Irrigation	
ENSC 36003	GIS for Environmental Science	
GEOS 35403	Geospatial Applications and Information Science	

GEOS 45903	Introduction to Global Positioning Systems and Global Navigation Satellite Systems	
Total Hours		**21**

Agricultural Education, Communication & Technology B.S.A. with Agricultural Systems Technology Management Concentration

Nine-Semester Degree Program

First Year	Fall	Spring	Summer
UNIV 10051 University Perspectives	1		
ASTM 16103 Fundamentals of Agricultural Systems Technology	3		
AECTBS Core Elective	3		
Satisfies General Education Outcome 3.4:			
BIOL 10103 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 10101 Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
ENGL 10103 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
ENGL 10203 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3	
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcome 3.1 or 3.2)[1, 2]		3	
Satisfies General Education Outcome 4.2:			
HIST 20003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Satisfies General Education Outcome 4.2) or HIST 20103 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 20003 American National Government (ACTS Equivalency = PLSC 2003)		3	
MATH 11003 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)		3	
PSYC 20003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)		3	
Year Total:	14	15	

Second Year	Fall	Spring	Summer
AGEC 11003 Principles of Agricultural Microeconomics (Satisfies General Education Outcome 3.3) or AGEC 21003 Principles of Agricultural Macroeconomics	3		
ASTM 29003 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
CHEM 12103 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 12101 Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
AECTBS Core Elective	3		
General Elective	3		
AGEC 23003 Introduction to Agribusiness		3	
ACOM 31403 Communicating Agriculture to the Public (Satisfies General Education Outcome 1.2) or ACOM 314H3 Honors Communicating Agriculture to the Public		3	
AECTBS Core Elective		3	
Math/Science Elective		3	
General Elective		3	
Year Total:	16	15	

Third Year	Fall	Spring	Summer
ASTM Concentration Elective	3		
AGED 31303 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3		
General Elective[4]	3		
Social Science University Core Elective (Satisfies General Education Outcome 3.3 and 4.1)[3]	3		
Fine Arts or Humanities University Core Elective (Satisfies General Education Outcomes 3.1 or 3.2)[1, 2]	3		
AGEC 33003 Food and Agricultural Marketing		3	
AGLE 31503 Leadership Development in Agriculture or AGLE 315H3 Honors Leadership Development in Agriculture		3	
ASTM 31002 Small Power Units/Turf Equipment & ASTM 31001 Small Power Units/Turf Equipment Laboratory		3	
ASTM 31703 Electricity in Agriculture		3	
General Elective[4]		3	

ASTM 4750V Internship in Ag Systems (Satisfies General Education Outcome 6.1) or ACOM 4750V Internship in Ag Communications or AGED 4750V Internship in Agricultural Education or AGLE 4750V Internship in Ag Leadership			3
Year Total:	15	15	3

Fourth Year			**Units**
	Fall	**Spring**	**Summer**
AGED 41203 Issues in Agriculture (Satisfies General Education Outcomes 1.2 and 5.1)	3		
AGEC 43003 Agribusiness Marketing Management	3		
General Electives[4]	9		
ASTM 42003 Mechanized Systems Management		3	
General Electives[4]		9	
Year Total:	15	12	

Total Units in Sequence:	**120**

[1] The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include:
ARCH 10003, ARHS 10003, COMM 10003, DANC 10003, LARC 10003, MUSC 10003, MUSC 100H3, MUSC 10103, MUSC 13303, THTR 10003, THTR 10103, or THTR 101H3

[2] The Humanities Elective courses which satisfy General Education Outcome 3.2 include:
AAST 20203, ANTH 10303, ARCH 10103, CLST 10003, CLST 100H3, CLST 10103, COMM 12303, ENGL 12103, GNST 20003, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20003, HIST 20103, HUMN 112H4, HUMN 22103, LALS 20103, MRST 20103, MUSY 20003, MUSY 200H3, PHIL 20003, PHIL 200H3, PHIL 21003, PHIL 23003, THTR 10003, THTR 10103, THTR 101H3, ENGL 11103, ENGL 11203, or intermediate-level world language (usually 20003-level).

[3] The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 10203, COMM 10203, HDFS 14003, HDFS 24103, HIST 11193, HIST 111H3, HIST 11293, HIST 112H3, HIST 20903, HUMN 111H4, HUMN 112H4, INST 28103, INST 281H3, PLSC 20103, PLSC 28103, PLSC 281H3, RESM 28503, SOCI 10103, SOCI 101H3, or SOCI 20103.

[4] Students must complete 40 hours of upper division courses (30000-40000 level). It is recommended that students consult with their academic adviser when making course selections.

Minor in Agricultural, Food and Life Sciences Communications (ACOM-M)

The Agricultural, Food and Life Sciences Communications Minor will consist of 18 hours to include the following:

ACOM 21403	Introduction to Agricultural Communications and Leadership	3
ACOM 31403	Communicating Agriculture to the Public	3
or ACOM 314H	Honors Communicating Agriculture to the Public	
JOUR 10303	Media Writing	3
Select 9 hours from the following:		9
ACOM 32403	Ag Reporting and Feature Writing	
ACOM 39403	Professional Development in Agricultural Communications and Leadership	
ACOM 41403	Electronic Communications in Agriculture	
ACOM 42403	Graphic Design in AFLS	
ACOM 43403	Communication Campaigns in Agriculture	
ACOM 45403	Ag Publications	
Total Hours		**18**

Minor in Agricultural Education (AGED-M)

The Agricultural Education Minor will consist of 20 hours to include the following:

AGED 31602	Curriculum Development and Assessment Techniques in AGED	2
AGED 31601	Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1
AGED 42303	Program Development	3
AGED 42103	Teachers as Professionals	3
CIED 30303	Classroom Learning Theory	3
CIED 40203	Teaching in Inclusive Secondary Settings	3
AGED 4750V	Internship in Agricultural Education	1-6
AGED 48403	Methods in Agricultural Laboratories	3
Total Hours		**19-24**

Teacher Education Requirements: To gain teacher certification, students must apply during the Fall semester of their sophomore year. We recognize not all programs can follow this timeline, but applying early will allow ample time to complete the requirements for clearance through Teacher Education.

Minor in Agricultural Leadership (AGLE-M)

The Agricultural Leadership Minor will consist of 18 semester hours to include:

AGLE 21403	Introduction to Agricultural Communications and Leadership	3
AGLE 31503	Leadership Development in Agriculture	3
or AGLE 315H3	Honors Leadership Development in Agriculture	
AGLE 41503	Survey of Leadership Theory in Agriculture	3
Select 9 hours from the following:		**9**
AGEC 33103	Agribusiness Sales	
AGLE 41603	Leadership Analysis Through Film	
AGED 31303	Instructional and Presentation Strategies	
AGLE 39403	Professional Development in Agricultural Communications and Leadership	
AGED 44403	Principles of Technological Change	

A student planning to minor in Agricultural Leadership should contact the program adviser for consultation and more detailed information.

Minor in Agricultural Systems Technology Management (ASTM-M)

The Agricultural Systems Technology Management Minor will consist of 18 hours to include the following:

ASTM 16103	Fundamentals of Agricultural Systems Technology	3
ASTM 29003	Agricultural and Human Environmental Sciences Applications of Microcomputers	3
Select 12 hours from the following:		12
ASTM 16101	Fundamentals of Agricultural Systems Technology Laboratory	
ASTM 21203	Metals and Welding	
ASTM 31503	Surveying in Agriculture and Forestry	
ASTM 31002 & ASTM 31001	Small Power Units/Turf Equipment and Small Power Units/Turf Equipment Laboratory	
ASTM 31703	Electricity in Agriculture	
ASTM 42003	Mechanized Systems Management	
ASTM 49703	Irrigation	
ENSC 36003	GIS for Environmental Science	
Total Hours		**18**

A student planning to minor in Agricultural Systems Technology Management must notify the program adviser for consultation and more detailed information.

Faculty

Cox, Casandra Kay, M.S., B.S. (University of Arkansas), Instructor, 2003.
Doss, Will, Ph.D. (Texas Tech University), M.S., B.S., (Texas A&M University), Assistant Professor, 2022.
Estepp, Chris, Ph.D. (University of Florida), M.Ed., B.S. (Texas A&M University), Associate Professor, 2019.
Estes, Hanna, M.S., B.S. (University of Arkansas), Instructor, 2014.
Estes, Stuart, M.S., B.S. (University of Arkansas), Instructor, 2021.
Graham, Donna Lucas, Ph.D. (University of Maryland-College Park), M.Ed., B.S. (University of Arkansas), University Professor, 1985, 2017.
Johnson, Donald M., Ph.D. (University of Missouri-Columbia), M.A., B.S. (Western Kentucky University), University Professor, 1993, 2021.

Koparan, Cengiz, Ph.D., M.S. (Clemson University), M.B.M. (Cambridge College), B.S. (Ankara University), Assistant Professor, 2023.

Miller, Jefferson Davis, Ph.D., M.A. (Oklahoma State University), B.A. (Northeastern State University), Professor, 2001, 2012.
Rice, Lanny, M.S. (University of Arkansas), Instructor, 2012.
Rucker, Kathryn Jill, Ph.D., M.B.A., B.S. (Oklahoma State University), Associate Professor, 2013, 2018.

Vehige, Grace, M.S. (Texas Tech University), B.S. (University of Arkansas), Instructor, 2023.
Wardlow, George W., Ph.D. (The Ohio State University), M.Ed., B.S. (University of Missouri-Columbia), Professor, 1992, 1998.
Whitehead, Isabel M., M.S. (University of Arkansas), B.S. (Sul Ross State University), Instructor, 2018.

Agricultural Communications Courses

ACOM 21403. Introduction to Agricultural Communications and Leadership. 3 Hours.
A survey of agricultural communications and leadership theories and practices for students in the ACOM and AGLE concentrations and minors and anyone seeking a basic understanding of these disciplines. The course provides an overview of the history, philosophy, and theories of the disciplines and introduces students to career options, skills and practical competencies required of agricultural communicators and leaders. (Typically offered: Fall)

ACOM 31403. Communicating Agriculture to the Public. 3 Hours.
An overview of public communications theory and practices in the agricultural, food, and life sciences with a particular focus on technical writing, public relations and media relations writing, campaign planning, public speaking, and various mass media communication techniques, including print, broadcast, electronic, and social media. (Typically offered: Fall, Spring and Summer)

ACOM 314H3. Honors Communicating Agriculture to the Public. 3 Hours.
An overview of public communications theory and practices in the agricultural, food, and life sciences with a particular focus on technical writing, public relations and media relations writing, campaign planning, public speaking, and various mass media communication techniques, including print, broadcast, electronic, and social media. Prerequisite: Honors standing. (Typically offered: Fall, Spring and Summer)

ACOM 32403. Ag Reporting and Feature Writing. 3 Hours.
This course will provide students an exposure to writing, interviewing, and editing news on agricultural issues in agricultural industry publications. Students will gain practical experience with journalistic interviewing, news writing, feature writing, digital photography, and writing for broadcast on agricultural issues. This course is designed for students with at least six hours of upper division courses. Pre- or Corequisite: JOUR 10303 and lab component. (Typically offered: Fall Odd Years)

ACOM 39403. Professional Development in Agricultural Communications and Leadership. 3 Hours.
Overview of professional and technical skills needed to succeed in internships and jobs in the field of agricultural communications. (Typically offered: Fall Even Years)

ACOM 4000V. Special Problems in Agricultural Communications. 1-6 Hour.
Individual study or research for advanced undergraduates in the field of agricultural communication. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with AGED 4000V, AGLE 4000V.

ACOM 4010V. Special Topics. 1-4 Hour.
Studies of selected topics in agricultural communications not covered in other courses. (Typically offered: Irregular) May be repeated for up to 4 hours of degree credit.

ACOM 41403. Electronic Communications in Agriculture. 3 Hours.
An overview of communication technology in the agricultural, food and life sciences. (Typically offered: Spring Even Years)

ACOM 42403. Graphic Design in AFLS. 3 Hours.
This course provides students with graphic design and software skills specific to industries in Agriculture, Food, and Life Sciences. Students will learn to use industry-standard software (InDesign, Photoshop, Illustrator, Microsoft Excel, etc.) to prepare text and graphics and package them for use in print production. Prerequisite: ASTM 29003 or ISYS 11203 or equivalent. (Typically offered: Fall, Spring and Summer)

ACOM 43403. Communication Campaigns in Agriculture. 3 Hours.
Students will develop understanding of the principles, practices and applications of social marketing, integrated marketing communications, advertising and public relations as they pertain to developing communication campaign strategies for the agricultural industry. Students will develop a communication campaign for an agricultural company and/or entity focused on a specific product or service. Prerequisite: Junior standing or higher, ACOM 42403, ACOM 32403, ACOM 31403, and (ACOM 21403 or AGLE 21403), or instructor permission. (Typically offered: Spring Odd Years)

ACOM 45403. Ag Publications. 3 Hours.
Students produce a magazine through classroom study mirroring a professional magazine staff and are provided an opportunity for their writing, advertisements, photographs and artwork to be published in the magazine. By using computer applications, students integrate various skills including writing, editing and layout in agricultural publications. Prerequisite: JOUR 10303. (Typically offered: Spring Even Years)

ACOM 46403. Agricultural Video Production. 3 Hours.
The goal of this course is for students to develop a practical understanding of video production with an emphasis on short-form videos commonly used in education and marketing in the agricultural, food and life sciences industry. The course content covers both theory and practical application and will include training with industry-standard video equipment and editing software. (Typically offered: Spring Even Years)

ACOM 4750V. Internship in Ag Communications. 1-6 Hour.
A supervised practical work experience in ag communications which is designed to give the student an insight into the role of ag communications employees and an opportunity to gain professional competence in this area. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with AGLE 4750V, ASTM 4750V, EXED 4750V.

Agricultural Education Courses

AGED 11203. Foundations of Agricultural Education. 3 Hours.
A preparatory course evaluating the historical foundations of agricultural education with an introduction to the psychological, sociological and philosophical foundations of education. This course will encourage reflective practice through understanding of educational trends, classroom environment creation and utilization, and effective program planning. (Typically offered: Fall)

AGED 31101. Student Management. 1 Hour.
To guide students in the development of realistic, proactive classroom management strategies that establish a safe culture of student learning and academic success. Prerequisite: Instructor Consent. (Typically offered: Spring)

AGED 31303. Instructional and Presentation Strategies. 3 Hours.
Methods and techniques in teaching agriculture at the secondary level. Lecture/laboratory 4 hours per week. Corequisite: Lab component. (Typically offered: Spring)

AGED 31601. Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory. 1 Hour.
To supply students with opportunities to apply skills in creating curricula, lesson plans, and assessment strategies for courses in career and technical education. Materials created as a result of this course will apply principles learned in AGED 31602, and will align with anticipated courses to be taught by the student during his/her teaching internship. Pre- or Corequisite: AGED 31602. (Typically offered: Fall)

AGED 31602. Curriculum Development and Assessment Techniques in AGED. 2 Hours.
To supply students with the necessary information and skills to select and apply appropriate teaching techniques, curricula, resources, and assessment strategies when designing a course in career and technical education. (Typically offered: Fall)

AGED 4000V. Special Problems in Agricultural and Extension Education. 1-6 Hour.
Individual study or research for advanced undergraduates in the field of agricultural and extension education. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with AGLE 4000V, ACOM 4000V.

AGED 4010V. Special Topics. 1-3 Hour.
Studies of selected topics in agricultural or extension education not covered in other courses. (Typically offered: Irregular) May be repeated for up to 4 hours of degree credit.

AGED 41103. Undergraduate Researchers Improving Student Experience. 3 Hours.
To engage students in the social sciences in action research that serves to solve a problem or answer a question within the student's academic field through scientific inquiry. All students will work with professionals, commonly outside of the university, within their discipline to conduct their action research in order to solve a problem experienced by that professional. Students may work in teams or individually to complete the overall purpose of the course. (Typically offered: Spring)

AGED 41203. Issues in Agriculture. 3 Hours.
Lecture and discussion on local, regional, national and international issues related to agricultural policy, ethics, environment, society, and science. Designed for students with at least six hours of upper division agricultural science courses. Prerequisite: Junior standing. (Typically offered: Fall)

AGED 42103. Teachers as Professionals. 3 Hours.
To expose students to the roles and responsibilities of professional teachers. Students will understand the characteristics common to professionals and apply these to the teaching setting. Real-world examples of "grey-area" situations will allow students to evaluate issues holistically and determine appropriate solutions following the ethical and professional guidelines of the teaching discipline. This course will also guide students in the development of realistic, proactive classroom management strategies that establish a safe culture of student learning and academic success, a major component of teacher professionalism. Additionally, students will prepare resumes and engage in mock interviews to enhance their professional dispositions as they consider employment opportunities. Prerequisite: Instructor consent. (Typically offered: Spring)

AGED 42303. Program Development. 3 Hours.
Teachers of agricultural education need an understanding of the skills needed to successfully manage leadership and experiential learning components of the agricultural education model. This course is designed to teach principles and concepts of leadership, program organization, youth organization management, supervised agricultural experience, and advisory committees. This course is a portion of pre-professional studies required for certification in agricultural education. Prerequisite: AGED 31303 and instructor consent. (Typically offered: Spring)

AGED 44403. Principles of Technological Change. 3 Hours.
This course introduces a structured approach for dealing with the organizational and human aspects of technology transition, including the key concepts of resistance and change management, organizational change, communications, and processes by which professional change agents influence the introduction, adoption, and diffusion of technological change. This course may be offered as a web-based course. Prerequisite: Junior standing. (Typically offered: Fall Odd Years)

AGED 4750V. Internship in Agricultural Education. 1-6 Hour.
Scheduled practical field experiences under the supervision of a professional practitioner in off-campus secondary school systems. Emphasis includes classroom preparation, teaching, and student evaluation. Successful completion of a criminal background check required before a student can begin internship. Prerequisite: Admission into Clinical Practice. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

AGED 48403. Methods in Agricultural Laboratories. 3 Hours.
Methods and management techniques in all types of agricultural laboratories that may be in a secondary agricultural science program. Emphasis on management of students and facilities, equipment, and materials. Laboratory 6 hours per week. (Typically offered: Spring)

Agricultural Leadership Courses

AGLE 21403. Introduction to Agricultural Communications and Leadership. 3 Hours.
A survey of agricultural communications and leadership theories and practices for students in the ACOM and AGLE concentrations and minors and anyone seeking a basic understanding of these disciplines. The course provides an overview of the history, philosophy, and theories of the disciplines and introduces students to career options, skills and practical competencies required of agricultural communicators and leaders. (Typically offered: Fall)

AGLE 31503. Leadership Development in Agriculture. 3 Hours.
Identification of styles and roles of leadership; development of leadership techniques and skills required in working with organizations; dynamics of group action; methods of resolving conflict; ethical considerations for leaders; and personal skills development. (Typically offered: Fall, Spring and Summer)

AGLE 315H3. Honors Leadership Development in Agriculture. 3 Hours.
Identification of styles and roles of leadership; development of leadership techniques and skills required in working with organizations; dynamics of group action; methods of resolving conflict; ethical considerations for leaders; and personal skills development. Prerequisite: Junior standing. (Typically offered: Fall, Spring and Summer)

AGLE 39403. Professional Development in Agricultural Communications and Leadership. 3 Hours.
Overview of professional and technical skills needed to succeed in internships and jobs in the field of agricultural communications. (Typically offered: Fall Even Years)

AGLE 4000V. Special Problems in Agricultural Leadership. 1-6 Hour.
Individual study or research for advanced undergraduates in the field of agricultural and extension education. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with AGED 4000V, ACOM 4000V.

AGLE 4010V. Special Topics. 1-4 Hour.
Studies of selected topics in agricultural or extension education not covered in other courses. (Typically offered: Irregular) May be repeated for up to 4 hours of degree credit.

AGLE 41503. Survey of Leadership Theory in Agriculture. 3 Hours.
An interdisciplinary analysis of current issues in the practice of leadership in a contemporary and changing society, particularly as they affect agricultural organizations and issues. Discussions of leadership theory, roles of leaders, skills for effective leadership, diversity issues, and followership will challenge students to think critically about leadership, enhance personal leadership performance and potential, and prepare for or expand leadership roles, and to become innovative and productive in dealing with challenges facing agricultural organizations today. Prerequisite: AGLE 31503. (Typically offered: Fall)

AGLE 41603. Leadership Analysis Through Film. 3 Hours.
Clemens (1999) stated, "Films are a catalyst." They make you laugh, cry, cheer, and think. Flaum (2002) stated leadership is best learned in the leadership moment. Moreover, the principles of Andragogy advocate adult learners best learning when there is a practical application of the learning subject. Therefore, this course builds upon the study of leadership theory by allowing students to analyze, reflect, synthesize, and apply leadership theories, models and concepts in the context of film. The course materials encourage students to reflect, synthesize, analyze, and apply the information learned from major leadership theories and apply them to various scenarios and situations demonstrated in selected films. Prerequisite: AGLE 31503 or AGLE 41503 or graduate standing or instructor consent. (Typically offered: Spring and Summer)

AGLE 4750V. Internship in Ag Leadership. 1-6 Hour.
A supervised practical work experience in Ag Leadership which is designed to give the student an insight into the role of ag leadership employees and an opportunity to gain professional competence in this area. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with ACOM 4750V, ASTM 4750V, EXED 4750V.

Agricultural Systems Technology Management Courses

ASTM 16101. Fundamentals of Agricultural Systems Technology Laboratory. 1 Hour.
Study of basic mathematical and physical science concepts important in the mechanization of agriculture. Laboratory required for agricultural education, communication and technology majors enrolled in ASTM 16103, optional for others enrolled in ASTM 16103. Corequisite: ASTM 16103. (Typically offered: Fall)

ASTM 16103. Fundamentals of Agricultural Systems Technology. 3 Hours.
Introduction to basic physical concepts important in agricultural technical systems: applied mechanics, power and machinery management, structures and electrification, and soil and water conservation. Lecture 3 hours per week. (Typically offered: Fall)

ASTM 21203. Metals and Welding. 3 Hours.
An introduction to agricultural mechanics shop work to include hot and cold metal work, arc welding, and gas welding and cutting. Lecture 2 hours, laboratory 3 hours per week. Corequisite: Lab component. (Typically offered: Fall and Spring)

ASTM 29003. Agricultural and Human Environmental Sciences Applications of Microcomputers. 3 Hours.
Lecture and laboratory assignments covering the contemporary use of microcomputers in agricultural, food and life sciences. Emphasis placed on learning to use selected, appropriate Microsoft (Windows, Word, Excel, PowerPoint and Access), email/Internet, and collaboration software packages. (Typically offered: Fall, Spring and Summer)

ASTM 31001. Small Power Units/Turf Equipment Laboratory. 1 Hour.
Testing, evaluation, and maintenance of engines, hydrostatic power transmission systems, and equipment commonly used in the turf and landscaping industries. Corequisite: ASTM 31002. Prerequisite: MATH 11003 or higher. (Typically offered: Spring)

ASTM 31002. Small Power Units/Turf Equipment. 2 Hours.
Principles of operation, adjustment, repair, maintenance, and trouble shooting of small air-cooled engines and power units, including various engine systems, service and maintenance of turf equipment and machinery. Lecture 2 hours per week. Corequisite: ASTM 31001. Prerequisite: MATH 11003 or higher. (Typically offered: Spring)

ASTM 31503. Surveying in Agriculture and Forestry. 3 Hours.
Techniques and procedures normally used in determining areas and characterizing the topography of agricultural and forest lands. Includes basic concepts of surveying; use and care of level, transit, distance measuring equipment; topographic mapping and public land surveys. (Typically offered: Fall)

ASTM 31703. Electricity in Agriculture. 3 Hours.
Principles of electricity; wiring of home, farmstead and other agricultural structures; selection of electric motors and their care and application in the broad field of agriculture; lighting and special uses of electricity such as heating and electrical controls. Lecture 2 hours, laboratory 2 hours per week. Corequisite: Lab component. (Typically offered: Spring)

ASTM 4000V. Special Problems. 1-6 Hour.
Individual research or study in electrification, irrigation, farm power, machinery, or buildings. Prerequisite: Senior standing. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

ASTM 4020V. Special Topics in Agricultural Mechanization. 1-4 Hour.
Topics not covered in other courses or a more intensive study of special topics in agricultural mechanization. (Typically offered: Irregular) May be repeated for degree credit.

ASTM 42003. Mechanized Systems Management. 3 Hours.
Selection, sizing, and operating principles of agricultural machinery systems, including power sources. Cost analysis and computer techniques applied to planning and management of mechanized systems. Corequisite: Lab component. Prerequisite: MATH 11003 or higher. (Typically offered: Fall Even Years)

ASTM 4750V. Internship in Ag Systems. 1-6 Hour.
A supervised practical work experience in Ag Systems Technology Management which is designed to give the student an insight into the role of ag systems employees and an opportunity to gain professional competence in this area. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with ACOM 4750V, AGLE 4750V, EXED 4750V.

ASTM 49703. Irrigation. 3 Hours.
Methods of applying supplemental water to soils to supply moisture essential for plant growth, sources of water, measurement of irrigation water, pumps, conveyance structure, economics, and irrigation for special crops. Lecture 2 hours, laboratory 2 hours per week. Corequisite: Lab component. (Typically offered: Spring)

Extension Education Courses

EXED 4750V. Internship in Extension. 1-6 Hour.
A supervised practical work experience in Cooperative Extension which is designed to give the student an insight into the role of Extension employees and an opportunity to gain professional competence in this area. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.
This course is cross-listed with ACOM 4750V, AGLE 4750V, ASTM 4750V.