

Agricultural Education, Communications and Technology (AECT)

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Agricultural Education, Communications and Technology Website (<http://aead.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 1001 University Perspectives	
Communications	6
Select English Core Courses	
U.S. History or Government	3
Select U.S. History or Government Core Courses	
Mathematics	3
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 1313)	
Science	11
BIOL 1543 Principles of Biology (ACTS Equivalency = & BIOL 1541L BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency & CHEM 1071L= 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 State Minimum Core	
Social Science	9
AGEC 1103 Principles of Agricultural Microeconomics or AGEC 21 Principles of Agricultural Macroeconomics	
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103)	
Choose 3 hours Social Science from State Minimum Core	
AECTBS Requirements	30
ASTM 1613 Fundamentals of Agricultural Systems Technology	
ASTM 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 3133 Instructional and Presentation Strategies	
ACOM 3143 Communicating Agriculture to the Public or ACOM 3143 Honors Communicating Agriculture to the Public	
AGLE 3153 Leadership Development in Agriculture or AGLE 3153 Honors Leadership Development in Agriculture	
AGED 4003 Issues in Agriculture	
Choose 3 hours from the following:**	
AGED 475V Internship in Agricultural Education (3 hours) or ACOM 475V Internship in Ag Communications or AGLE 475V Internship in Ag Leadership or ASTM 475V Internship in Ag Systems	
Choose 9 hours from the following:	
ANSC 1033 Introductory Animal Sciences	

ENSC 1003	Environmental Science
ENTO 1023	Insects, Science and Society
HORT 2003	Principles of Horticulture
POSC 2343	Poultry Production
FDSC 2603	The Science of Cooking
PLPA 3003	Principles of Plant Pathology
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)	
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 1033	Media Writing
ACOM 2143	Introduction to Agricultural Communications and Leadership
ACOM 3243	Ag Reporting and Feature Writing
ACOM 3943	Professional Development in Agricultural Communications and Leadership
ACOM 4143	Electronic Communications in Agriculture
ACOM 4243	Graphic Design in AFLS
ACOM 4343	Communication Campaigns in Agriculture
ACOM 4543	Ag Publications
Total Hours	24

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

First Year	Units		
	Fall	Spring	Summer
UNIV 1001 University Perspectives	1		
ASTM 1613 Fundamentals of Agricultural Systems Technology	3		
Satisfies General Education Outcome 3.4:			
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
Elective	3		
ACOM 2143 Introduction to Agricultural Communications and Leadership		3	

ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)	3	
JOUR 1033 Media Writing	3	
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)	3	
ACOM 3143 Communicating Agriculture to the Public (Satisfies General Education Outcome 1.2) or ACOM 3143H Honors Communicating Agriculture to the Public	3	
Year Total:	14	15

Second Year	Units		
	Fall	Spring	Summer
Satisfies General Education Outcome 3.3:			
AGEC 1103 Principles of Agricultural Microeconomics or AGECE 2103 Principles of Agricultural Macroeconomics	3		
ASTM 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
Satisfies General Education Outcome 3.4:			
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
Fine Arts or Humanities State Minimum 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 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)			3
PSYC 2003 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 State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) ^{1, 2}	3		
Elective	6		
AECTBS Core Elective	3		
ACOM 3243 Ag Reporting and Feature Writing	3		
AGLE 3153 Leadership Development in Agriculture (Satisfies General Education Outcome 3.3) or AGLE 3153H Honors Leadership Development in Agriculture		3	
ACOM 4343 Communication Campaigns in Agriculture		3	
Science/Math Elective		3	
Social Science State Minimum Core Elective (Satisfies General Education Outcome 3.3) ³		3	
Elective ⁴		3	
ACOM 475V Internship in Ag Communications or AGED 475V Internship in Agricultural Education or AGLE 475V Internship in Ag Leadership or ASTM 475V Internship in Ag Systems (AGED 475V Satisfies General Education Outcome 6.1)			3
Year Total:	15	15	3

Fourth Year	Units		
	Fall	Spring	Summer
ACOM 3943 Professional Development in Agricultural Communications and Leadership	3		
AGED 4003 Issues in Agriculture (Satisfies General Education Outcomes 1.2 & 5.1)	3		
ACOM 4243 Graphic Design in AFLS	3		
AGED 3133 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2) Elective ⁴	3		
ACOM 4143 Electronic Communications in Agriculture		3	
ACOM 4543 Ag Publications Elective ⁴		3	
Year Total:	15	12	

Total Units in Sequence: 120

- ¹ The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003, MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.
- ² The Humanities Elective courses which satisfy General Education Outcome 3.2 include: AAST 2023, ANTH 1033, ARCH 1013, CLST 1003, CLST 1003H, CLST 1013, COMM 1233, DANC 1003, ENGL 1213, GNST 2003, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, HIST 2013, HUMN 1124H, HUMN 2213, LALS 2013, MRST 2013, MUSY 2003, MUSY 2003H, PHIL 2003, PHIL 2003C, PHIL 2003H, PHIL 2103, PHIL 2103C, PHIL 2303, THTR 1003, THTR 1013, THTR 1013H, WLIT 1113, WLIT 1123, or intermediate-level world language (usually 2003-level).
- ³ The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include: ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2813, INST 2813H, PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.
- ⁴ Students must complete 40 hours of upper division courses (3000-4000 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 1001 University Perspectives	
Communications	6
Select English Core Courses	
U.S. History or Government	3
Select U.S. History or Government Core Courses	
Mathematics	3
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 1313)	
Science	11
BIOL 1543 Principles of Biology (ACTS Equivalency = & BIOL 1541L BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency & CHEM 1071L= 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 State Minimum Core	
Social Science	9
AGEC 1103 Principles of Agricultural Microeconomics or AGECE 21 Principles of Agricultural Macroeconomics	

PSYC 2003	General Psychology (ACTS Equivalency = PSYC 1103)	
Choose 3 hours Social Science from State Minimum Core		
AECTBS Requirements		30
ASTM 1613	Fundamentals of Agricultural Systems Technology	
ASTM 2903	Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 3133	Instructional and Presentation Strategies	
ACOM 3143	Communicating Agriculture to the Public	
or ACOM 3143H	Honors Communicating Agriculture to the Public	
AGLE 3153	Leadership Development in Agriculture	
or AGLE 3153H	Honors Leadership Development in Agriculture	
AGED 4003	Issues in Agriculture	
Choose 3 hours from the following:**		
AGED 475V	Internship in Agricultural Education (3 hours)	
or ACOM 475V	Internship in Ag Communications	
or AGLE 475V	Internship in Ag Leadership	
or ASTM 475V	Internship in Ag Systems	
Choose 9 hours from the following:		
ANSC 1033	Introductory Animal Sciences	
ENSC 1003	Environmental Science	
ENTO 1023	Insects, Science and Society	
HORT 2003	Principles of Horticulture	
POSC 2343	Poultry Production	
FDSC 2603	The Science of Cooking	
PLPA 3003	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 1123, CIED 3023/CIED 4023, and CIED 3033.
2. Obtain a "C" or better in concentration education courses: AGED 3111, AGED 3133, ACOM 3143, AGED 4211, AGED 4231, and AGED 4843L.
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/othersgeneralfees/>). 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 0700 — Minimum Score: 150
- C. Criminal Background Check

AGED Concentration Requirements (21 plus 3 practicum hours)

AGED 1123	Foundations of Agricultural Education	3
AGED 3111	Student Management	1
AGED 3162	Curriculum Development and Assessment Techniques in AGED	2
AGED 3161L	Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1
AGED 4113	Undergraduate Researchers Improving Student Experience	3
AGED 4211	Teachers as Professionals	1
AGED 4231	Program Development	1
AGED 475V	Internship in Agricultural Education (3 hours - Criminal background check is required prior to student internship)	3
CIED 3023	Survey of Exceptionalities	3
or CIED 4023	Teaching in Inclusive Secondary Settings	
AGED 4843L	Methods in Agricultural Laboratories	3
CIED 3033	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 1001 University Perspectives	1	
AGED 1123 Foundations of Agricultural Education	3	
ASTM 1613 Fundamentals of Agricultural Systems Technology	3	

ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Unless Exempt) (Satisfies General Education Outcome 1.1)	3	
AECTBS Core Elective	3	
Elective	3	
Satisfies General Education Outcome 3.4:		
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4	
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Unless Exempt) (Satisfies General Education Outcome 1.1)	3	
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)	3	
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)	3	
Elective	3	
Year Total:	16	16

Second Year

	Fall	Spring
Satisfies General Education Outcome 3.3:		
AGEC 1103 Principles of Agricultural Microeconomics or AGECE 2103 Principles of Agricultural Macroeconomics	3	
ASTM 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	3	
Satisfies General Education Outcome 3.4:		
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4	
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) ^{1,2}	3	
AGED 4113 Undergraduate Researchers Improving Student Experience	3	
ACOM 3143 Communicating Agriculture to the Public or ACOM 3143H Honors Communicating Agriculture to the Public	3	
Satisfies General Education Outcome 4.2:		
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)	3	
AECTBS Core Elective	3	
Science or Math Elective	3	
Elective	3	
Year Total:	16	15

Third Year

	Fall	Spring
AGED 3133 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3	
AGLE 3153 Leadership Development in Agriculture or AGLE 3153H Honors Leadership Development in Agriculture	3	
Social Science State Minim Core Elective (Satisfies General Education Outcomes 3.3 and 4.1) ³	3	
Elective	6	
CIED 3023 Survey of Exceptionalities or CIED 4023 Teaching in Inclusive Secondary Settings		3
AGED 3162 Curriculum Development and Assessment Techniques in AGED Electives ⁴		2
AECTBS Core Elective		6
Year Total:	15	14

Fourth Year

	Fall	Spring
CIED 3033 Classroom Learning Theory	3	
AGED 4003 Issues in Agriculture (Satisfies General Education Outcome 5.1)	3	
AGED 3161L Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1	
Electives ⁴	6	
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) ^{1,2}	3	
AGED 3111 Student Management		1
AGED 4211 Teachers as Professionals		1
AGED 4231 Program Development		1
AGED 4843L Methods in Agricultural Laboratories		3
AGED 475V Internship in Agricultural Education (Satisfies General Education Outcome 6.1) or ACOM 475V Internship in Ag Communications or AGLE 475V Internship in Ag Leadership or ASTM 475V 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 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003,
 MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.

- ² The Humanities Elective courses which satisfy General Education Outcome 3.2 include:
AAST 2023, ANTH 1033, ARCH 1013, CLST 1003, CLST 1003H, CLST 1013, COMM 1233, DANC 1003, ENGL 1213, GNST 2003, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, HIST 2013, HUMN 1124H, HUMN 2213, LALS 2013, MRST 2013, MUSY 2003, MUSY 2003H, PHIL 2003, PHIL 2003C, PHIL 2003H, PHIL 2103, PHIL 2103C, PHIL 2303, THTR 1003, THTR 1013, THTR 1013H, WLIT 1113, WLIT 1123, or Intermediate-level world language (usually 2003-level).
- ³ The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2813, INST 2813H, PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.
- ⁴ Students must complete 40 hours of upper division courses (3000-4000 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 1001 University Perspectives	
Communications	6
Select English Core Courses	
U.S. History or Government	3
Select U.S. History or Government Core Courses	
Mathematics	3
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 1313)	
Science	11
BIOL 1543 Principles of Biology (ACTS Equivalency = & BIOL 1541L BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency & CHEM 1071L= 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 State Minimum Core	
Social Science	9
AGEC 1103 Principles of Agricultural Microeconomics or AGECE 21 Principles of Agricultural Macroeconomics	
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103)	
Choose 3 hours Social Science from State Minimum Core	

AECTBS Requirements 30

ASTM 1613	Fundamentals of Agricultural Systems Technology
ASTM 2903	Agricultural and Human Environmental Sciences Applications of Microcomputers
AGED 3133	Instructional and Presentation Strategies
ACOM 3143	Communicating Agriculture to the Public
or ACOM 3143H	Honors Communicating Agriculture to the Public
AGLE 3153	Leadership Development in Agriculture
or AGLE 3153H	Honors Leadership Development in Agriculture
AGED 4003	Issues in Agriculture
Choose 3 hours from the following:**	
AGED 475V	Internship in Agricultural Education (3 hours)
or ACOM 475V	Internship in Ag Communications
or AGLE 475V	Internship in Ag Leadership
or ASTM 475V	Internship in Ag Systems
Choose 9 hours from the following:	
ANSC 1033	Introductory Animal Sciences
ENSC 1003	Environmental Science
ENTO 1023	Insects, Science and Society
HORT 2003	Principles of Horticulture
POSC 2343	Poultry Production
FDSC 2603	The Science of Cooking
PLPA 3003	Principles of Plant Pathology
21-24 hours from concentration requirements (AGED, ACOM, ASTM, AGLE)	
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 2143	Introduction to Agricultural Communications and Leadership	
AGLE 3943	Professional Development in Agricultural Communications and Leadership	
AGLE 4153	Survey of Leadership Theory in Agriculture	
AGLE 4163	Leadership Analysis Through Film	
AGED 4443	Principles of Technological Change	
COMM 1313	Public Speaking (ACTS Equivalency = SPCH 1003)	
AFLS 3993	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 1001 University Perspectives	1		
ASTM 1613 Fundamentals of Agricultural Systems Technology	3		
AGLE 2143 Introduction to Agricultural Communications and Leadership	3		
Satisfies General Education Outcome 3.4:			
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
COMM 1313 Public Speaking (ACTS Equivalency = SPCH 1003) (Satisfies General Education Outcomes 1.2 and 5.1)		3	
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3	
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (Satisfies General Education Outcome 2.1)		3	
Satisfies General Education Outcome 4.2:			
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)		3	
Social Science 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 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
Satisfies General Education Outcome 3.3:			

AGEC 1103 Principles of Agricultural Microeconomics or AGECE 2103 Principles of Agricultural Macroeconomics	3		
Satisfies General Education Outcome 3.4:			
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture) & CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)	4		
Fine Arts or /Humanities State Minimum 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 3143 Communicating Agriculture to the Public or ACOM 3143H Honors Communicating Agriculture to the Public			3
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) ^{2, 3}			3
PSYC 2003 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 3133 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3		
AGLE 3943 Professional Development in Agricultural Communications and Leadership	3		
General Electives ⁴	9		
AGLE 3153 Leadership Development in Agriculture or AGLE 3153H Honors Leadership Development in Agriculture		3	
General Electives ⁴		12	
AGLE 475V Internship in Ag Leadership or AGED 475V Internship in Agricultural Education			3
or ACOM 475V Internship in Ag Communications or ASTM 475V Internship in Ag Systems (AGED 475V Satisfies General Education Outcome 6.1)			
Year Total:	15	15	3

Fourth Year	Units		
	Fall	Spring	Summer
AGED 4003 Issues in Agriculture (Satisfies General Education Outcomes 1.2 and 5.1)	3		
AGLE 4153 Survey of Leadership Theory in Agriculture	3		
AGED 4443 Principles of Technological Change	3		
AFLS 3993 Professional Growth and Critical Career Skills	3		
AECTBS Core Elective	3		
AGLE 4163 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 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003, MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.

² The Humanities Elective courses which satisfy General Education Outcome 3.2 include:
AAST 2023, ANTH 1033, ARCH 1013, CLST 1003, CLST 1003H, CLST 1013, COMM 1233, DANC 1003, ENGL 1213, GNST 2003, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, HIST 2013, HUMN 1124H, HUMN 2213, LALS 2013, MRST 2013, MUSY 2003, MUSY 2003H, PHIL 2003, PHIL 2003C, PHIL 2003H, PHIL 2103, PHIL 2103C, PHIL 2303, THTR 1003, THTR 1013, THTR 1013H, WLIT 1113, WLIT 1123, or Intermediate-level world language (usually 2003-level).

³ The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include:
ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2013, INST 2813, INST 2813H, PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.

⁴ Students must complete 40 hours of upper division courses (3000-4000 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 1001 University Perspectives	
Communications	6
Select English Core Courses	
U.S. History or Government	3
Select U.S. History or Government Core Courses	
Mathematics	3
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher excluding MATH 1313)	
Science	11
BIOL 1543 Principles of Biology (ACTS Equivalency = & BIOL 1541L BIOL 1014 Lecture) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency & CHEM 1071L= 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 State Minimum Core	
Social Science	9
AGEC 1103 Principles of Agricultural Microeconomics or AGEC 21 Principles of Agricultural Macroeconomics	
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103)	
Choose 3 hours Social Science from State Minimum Core	
AECTBS Requirements	30
ASTM 1613 Fundamentals of Agricultural Systems Technology	
ASTM 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	
AGED 3133 Instructional and Presentation Strategies	
ACOM 3143 Communicating Agriculture to the Public or ACOM 3143H Honors Communicating Agriculture to the Public	
AGLE 3153 Leadership Development in Agriculture or AGLE 3153H Honors Leadership Development in Agriculture	
AGED 4003 Issues in Agriculture	
Choose 3 hours from the following:**	
AGED 475V Internship in Agricultural Education (3 hours) or ACOM 475V Internship in Ag Communications or AGLE 475V Internship in Ag Leadership or ASTM 475V Internship in Ag Systems	
Choose 9 hours from the following:	
ANSC 1033 Introductory Animal Sciences	
ENSC 1003 Environmental Science	
ENTO 1023 Insects, Science and Society	
HORT 2003 Principles of Horticulture	
POSC 2343 Poultry Production	
FDSC 2603 The Science of Cooking	
PLPA 3003 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)	21
ASTM 3102 Small Power Units/Turf Equipment	
ASTM 3101L Small Power Units/Turf Equipment Laboratory	
ASTM 3173 Electricity in Agriculture	
ASTM 4203 Mechanized Systems Management	
AGED 2303 Introduction to Agribusiness	
AGED 3303 Food and Agricultural Marketing	
AGED 4303 Agribusiness Marketing Management	
Choose 3 credits from:	
ASTM 1611L Fundamentals of Agricultural Systems Technology Laboratory	
ASTM 2123 Metals and Welding	
ASTM 3153 Surveying in Agriculture and Forestry	
ASTM 402V Special Topics in Agricultural Mechanization	
ASTM 4973 Irrigation	
ENSC 3603 GIS for Environmental Science	
GEOS 3543 Geospatial Applications and Information Science	
GEOS 4593 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

	Units		
	Fall	Spring	Summer
UNIV 1001 University Perspectives	1		
ASTM 1613 Fundamentals of Agricultural Systems Technology	3		
AECTBS Core Elective	3		
Satisfies General Education Outcome 3.4:			
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)	4		

ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3	
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcome 3.1 or 3.2) ^{1, 2}			3
Satisfies General Education Outcome 4.2:			
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa))			3
or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)			
MATH 1203 College Algebra (ACTS Equivalency = MATH 1103) (or higher) (Satisfies General Education Outcome 2.1)			3
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103) (Satisfies General Education Outcome 3.3)			3
Year Total:	14	15	

	Units		
	Fall	Spring	Summer
Satisfies General Education Outcome 3.3:			
AGED 1103 Principles of Agricultural Microeconomics	3		
or AGEC 2103 Principles of Agricultural Macroeconomics			
ASTM 2903 Agricultural and Human Environmental Sciences Applications of Microcomputers	3		
Satisfies General Education Outcome 3.4:			
CHEM 1073 Fundamentals of Chemistry (ACTS Equivalency = CHEM 1214 Lecture)			4
& CHEM 1071L Fundamentals of Chemistry Laboratory (ACTS Equivalency = CHEM 1214 Lab)			
AECTBS Core Elective	3		
General Elective	3		
AGED 2303 Introduction to Agribusiness			3
Satisfies General Education Outcome 1.2:			
ACOM 3143 Communicating Agriculture to the Public			3
or ACOM 3143H Honors Communicating Agriculture to the Public			

AECTBS Core Elective		3
Math/Science Elective		3
General Elective		3
Year Total:	16	15

Third Year	Units		
	Fall	Spring	Summer
ASTM Concentration Elective	3		
AGED 3133 Instructional and Presentation Strategies (Satisfies General Education Outcome 1.2)	3		
General Elective ⁴	3		
Social Science State Minimum Core Elective (Satisfies General Education Outcome 3.3 and 4.1) ³	3		
Fine Arts or Humanities State Minimum Core Elective (Satisfies General Education Outcomes 3.1 or 3.2) ^{1,2}	3		
AGEC 3303 Food and Agricultural Marketing		3	
AGLE 3153 Leadership Development in Agriculture or AGLE 3153H Honors Leadership Development in Agriculture		3	
ASTM 3102 Small Power Units/Turf Equipment & ASTM 3101L Small Power Units/Turf Equipment Laboratory		3	
ASTM 3173 Electricity in Agriculture General Elective ⁴		3	
ASTM 475V Internship in Ag Systems or AGED 475V Internship in Agricultural Education or ACOM 475V Internship in Ag Communications or AGLE 475V Internship in Ag Leadership (AGED 475V Satisfies General Education Outcome 6.1)		3	
Year Total:	15	15	3

Fourth Year	Units		
	Fall	Spring	Summer
AGED 4003 Issues in Agriculture (Satisfies General Education Outcomes 1.2 and 5.1)	3		
AGEC 4303 Agribusiness Marketing Management General Electives ⁴	9		
ASTM 4203 Mechanized Systems Management General Electives ⁴		3	
Year Total:	15	12	

Total Units in Sequence: 120

¹ The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003, MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.

² The Humanities Elective courses which satisfy General Education Outcome 3.2 include: AAST 2023, ANTH 1033, ARCH 1013, CLST 1003, CLST 1003H, CLST 1013, COMM 1233, DANC 1003, ENGL 1213, GNST 2003, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, HIST 2013, HUMN 1124H, HUMN 2213, LALS 2013, MRST 2013, MUSY 2003, MUSY 2003H, PHIL 2003, PHIL 2003C, PHIL 2003H, PHIL 2103, PHIL 2103C, PHIL 2303, THTR 1003, THTR 1013, THTR 1013H, WLIT 1113, WLIT 1123, or Intermediate-level world language (usually 2003-level).

³ The Social Science Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include: ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2013, INST 2813, INST 2813H, PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.

⁴ Students must complete 40 hours of upper division courses (3000-4000 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)

³ The Agricultural, Food and Life Sciences Communications Minor will consist of 18 hours to include the following:

ACOM 2143	Introduction to Agricultural Communications and Leadership	3
ACOM 3143	Communicating Agriculture to the Public or ACOM 3143H Honors Communicating Agriculture to the Public	3
JOUR 1033	Media Writing	3
Select 9 hours from the following:		9
ACOM 3243	Ag Reporting and Feature Writing	
ACOM 3943	Professional Development in Agricultural Communications and Leadership	
ACOM 4143	Electronic Communications in Agriculture	
ACOM 4243	Graphic Design in AFLS	
ACOM 4343	Communication Campaigns in Agriculture	
ACOM 4543	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 3162	Curriculum Development and Assessment Techniques in AGED	2
AGED 4231	Program Development	1

AGED 3161L	Curriculum Development and Assessment Techniques in Career and Technical Education Laboratory	1
AGED 4211	Teachers as Professionals	1
AGED 3111	Student Management	1
CIED 3033	Classroom Learning Theory	3
AGED 4113	Undergraduate Researchers Improving Student Experience	3
CIED 4023	Teaching in Inclusive Secondary Settings	3
AGED 475V	Internship in Agricultural Education	2
AGED 4843L	Methods in Agricultural Laboratories	3
Total Hours		20

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 2143	Introduction to Agricultural Communications and Leadership	3
AGLE 3153	Leadership Development in Agriculture	3
	or AGLE 3153H-Honors Leadership Development in Agriculture	
AGLE 4153	Survey of Leadership Theory in Agriculture	3
Select 9 hours from the following:		9
AGEC 3313	Agribusiness Sales	
AGLE 4163	Leadership Analysis Through Film	
AGED 3133	Instructional and Presentation Strategies	
AGLE 3943	Professional Development in Agricultural Communications and Leadership	
AGED 4443	Principles of Technological Change	
EXED 4183	Management of Volunteer Programs	

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 1613	Fundamentals of Agricultural Systems Technology	3
ASTM 2903	Agricultural and Human Environmental Sciences Applications of Microcomputers	3
Select 12 hours from the following:		12
ASTM 1611L	Fundamentals of Agricultural Systems Technology Laboratory	
ASTM 2123	Metals and Welding	
ASTM 3153	Surveying in Agriculture and Forestry	
ASTM 3102	Small Power Units/Turf Equipment & ASTM 3101L and Small Power Units/Turf Equipment Laboratory	
ASTM 3173	Electricity in Agriculture	
ASTM 4203	Mechanized Systems Management	

ASTM 4973	Irrigation
ENSC 3603	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

- Doss, Will**, Ph.D. (Texas Tech University), M.S., B.S., (Texas A&M University), Assistant Professor, 2022.
- Estep, 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.
- 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), Professor, 1993, 1999.
- 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.
- Shoulders, Kate**, Ph.D. (University of Florida), M.S., M.A. (Murray State University), Associate Professor, 2012, 2017.
- 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 2143. 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)

This course is cross-listed with AGLE 2143.

ACOM 3143. 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 3143H. 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)

This course is equivalent to ACOM 3143.

ACOM 3243. 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 1033 and lab component. (Typically offered: Fall Odd Years)

ACOM 3943. 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)
This course is cross-listed with AGLE 3943.

ACOM 400V. 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 400V, AGLE 400V.

ACOM 401V. 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 4143. Electronic Communications in Agriculture. 3 Hours.

An overview of communication technology in the agricultural, food and life sciences. (Typically offered: Spring Even Years)

ACOM 4243. 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 2903 or ISYS 1123 or equivalent. (Typically offered: Fall, Spring and Summer)

ACOM 4343. 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 4243, ACOM 3243, ACOM 3143, and (ACOM 2143 or AGLE 2143), or instructor permission. (Typically offered: Spring Odd Years)

ACOM 4543. 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 1033. (Typically offered: Spring Even Years)

ACOM 4643. 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 475V. 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 475V, ASTM 475V, EXED 475V.

Agricultural Education Courses

AGED 1123. 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 1133. Lifelong Agricultural Advocacy. 3 Hours.

This course will supply students with the necessary information and skills to evaluate and seek out opportunities and methods for advocating for agricultural industries. This course will equip students with the knowledge and skills to become active agricultural leaders serving at the intersection of policy, consumer engagement, and best agricultural practice. (Typically offered: Fall)

AGED 3111. 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 3133. 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: Fall)

AGED 3161L. 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 3162, and will align with anticipated courses to be taught by the student during his/her teaching internship. Pre- or Corequisite: AGED 3162. (Typically offered: Fall)

AGED 3162. 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: Spring)

AGED 4003. 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 400V. 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 400V, ACOM 400V.

AGED 401V. 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 4113. 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 4211. Teachers as Professionals. 1 Hour.

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. 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: Fall)

AGED 4231. Program Development. 1 Hour.

Principles and concepts of leadership, program organization, supervised agricultural experience, and advisory committees. This course is a portion of pre-professional studies required for certification in agricultural education. Prerequisite: AGED 3133 and instructor consent. (Typically offered: Spring)

AGED 4443. 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 4632. Teaching Diverse Populations in Agricultural and Extension Education. 2 Hours.

This course is designed to provide pre-service teachers of agriculture with an understanding of teaching diverse populations as applied to problems of practice in agricultural and extension education. (Typically offered: Spring)

AGED 475V. 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 4843L. 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 2143. 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)
This course is cross-listed with ACOM 2143.

AGLE 3153. 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 3153H. 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)

This course is equivalent to AGLE 3153.

AGLE 3943. 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)
This course is cross-listed with ACOM 3943.

AGLE 400V. 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 400V, ACOM 400V.

AGLE 401V. 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 4153. 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 3153. (Typically offered: Fall)

AGLE 4163. 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 3153 or AGLE 4153 or graduate standing or instructor consent. (Typically offered: Spring and Summer)

AGLE 475V. 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 475V, ASTM 475V, EXED 475V.

Agricultural Systems Technology Management Courses

ASTM 1611L. 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 1613, optional for others enrolled in ASTM 1613. Corequisite: ASTM 1613. (Typically offered: Fall)

ASTM 1613. 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 2123. 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 2903. 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 3042. Agricultural Construction Technology. 2 Hours.

Principles of building design and construction. Includes site selection calculating structural loads and computerized packages for building design. Safety practices, selection of building materials and determining costs are also included. Lecture is one hour and lab is two hours per week. Prerequisite: MATH 1203 or higher, and junior standing. (Typically offered: Irregular)

ASTM 3101L. 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 3102. Prerequisite: MATH 1203 or higher. (Typically offered: Spring)

ASTM 3102. 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 3101L. Prerequisite: MATH 1203 or higher. (Typically offered: Spring)

ASTM 3153. 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 3173. 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 400V. 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 402V. 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 4203. 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 1203 or higher. (Typically offered: Fall Even Years)

ASTM 475V. 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 475V, AGLE 475V, EXED 475V.

ASTM 4973. 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 4183. Management of Volunteer Programs. 3 Hours.

Recruiting, training, management, evaluation, and recognition of volunteers in agricultural-related agencies, non-profit organizations, community groups, and advisory committees. Prerequisite: Junior standing. (Typically offered: Irregular)

EXED 475V. 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 475V, AGLE 475V, ASTM 475V.