

Agricultural and Extension Education (AEED)

George Wardlow
 Department Head
 E108 Agricultural, Food, and Life Sciences Building
 479-575-2035
 Email: wardlow@uark.edu

Jill Rucker
 Graduate Coordinator
 E108 Agricultural, Food, and Life Sciences Building
 479-575-2035
 Email: kjrucker@uark.edu

Agricultural and Extension Education website

Degrees Conferred:
 M.S. (AEEDMS)

Areas of Study: Agricultural education, communication, technology, or extension education, and a technical area.

Primary Areas of Faculty Research: Agricultural teacher education; extension and non-formal education; agricultural systems technology management; and agricultural communications.

M.S. in Agricultural and Extension Education

Prerequisites to Degree Program: Bachelor's degree in a closely allied field. Some deficiency courses may be assessed depending on the background and educational objectives of the student. Applicants must be admitted to the Graduate School and must have a) satisfactory undergraduate preparation in related fields of study and b) satisfactory GRE or MAT scores. In addition, applicants must submit three letters of recommendation and a writing sample.

Requirements for the Master of Science (M.S.) Degree: This program requires 33 semester hours, with a choice of either a thesis or non-thesis option.

Thesis Option: There are 12 hours of core courses consisting of AGED 54603 Research Methodology in the Social Sciences, AGED 54703 Interpreting Social Data in Agriculture, AGED 50503 Philosophy of Agricultural and Extension Education, AGED 54101 Thesis Proposal Development, AGED 54201 Grant Writing, and AGED 54301 Technical Communication in the Social Sciences. Additionally, students in the thesis option complete a written thesis, AGED 6000V (6 hours). The thesis will focus on a research problem related to agricultural education, communications, leadership, technology or extension education.

Non-Thesis Option: There are 12 hours of core courses consisting of AGED 54603 Research Methodology in the Social Sciences, AGED 54703 Interpreting Social Data in Agriculture, and AGED 50503 Philosophy of Agricultural and Extension Education and a 3-hour communication elective.

The remaining hours (15 for the thesis option, 21 for the non-thesis option) may be taken in a technical area or in agricultural and extension

education courses. Students should work with their advisory committee to choose courses to meet their academic goals.

A comprehensive examination is required of all candidates, including an oral examination for the thesis candidate, and a written examination for the non-thesis candidate.

Students should also be aware of Graduate School requirements with regard to master's degrees (<http://catalog.uark.edu/graduatecatalog/degreerequirements/#mastersdegreestext>).

Graduate Faculty

Graham, Donna Lucas, Ph.D. (University of Maryland-College Park), M.Ed., B.S. (University of Arkansas), University Professor, Department of Agricultural Education, Communications and Technology, 1985, 2017.

Johnson, Donald M., Ph.D. (University of Missouri-Columbia), M.A., B.S. (Western Kentucky University), Professor, Department of Agricultural Education, Communications and Technology, 1993, 1999.

Miller, Jefferson Davis, Ph.D., M.A. (Oklahoma State University), B.A. (Northeastern State University), Professor, Department of Agricultural Education, Communications and Technology, 2001, 2012.

Rucker, Kathryn Jill, Ph.D., M.B.A., B.S. (Oklahoma State University), Associate Professor, Department of Agricultural Education, Communications and Technology, 2013, 2018.

Wardlow, George W., Ph.D. (The Ohio State University), M.Ed., B.S. (University of Missouri-Columbia), Professor, Department of Agricultural Education, Communications and Technology, 1992, 1998.

Agricultural Communications Courses

ACOM 5100V. Special Problems. 1-6 Hour.

Individual investigation of a special problem in agricultural communications which is not available through regular courses. These will be directed by a member of the graduate faculty. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

ACOM 51403. Electronic Communications in Agriculture. 3 Hours.

An overview of communication technology in the agricultural, food and life sciences. Graduate degree credit will not be given for both ACOM 41403 and ACOM 51403. (Typically offered: Spring Even Years)

ACOM 5200V. Special Topics. 1-4 Hour.

Topics not covered in other courses or a more intensive study of specific topics in agricultural communications. (Typically offered: Irregular) May be repeated for degree credit.

ACOM 52403. 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. Graduate degree credit will not be given for both ACOM 42403 and ACOM 52403. Prerequisite: ASTM 29003 or ISYS 11203 or equivalent. (Typically offered: Fall, Spring and Summer)

ACOM 53403. 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. Graduate degree credit will not be given for both ACOM 43403 and ACOM 53403. Prerequisite: Graduate standing. (Typically offered: Spring Odd Years)

ACOM 55403. 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. Graduate degree credit will not be given for both ACOM 45403 and ACOM 55403. (Typically offered: Spring Even Years)

ACOM 56403. 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. Prerequisite: Graduate standing. (Typically offered: Spring Even Years)

ACOM 5750V. Internship in Agricultural Communications. 1-6 Hour.

Scheduled practical field experiences under supervision of a professional practitioner. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

This course is cross-listed with AGLE 5750V, ASTM 5750V, EXED 5750V.

ACOM 58403. Risk and Crisis Communication. 3 Hours.

Course explores risk and crisis as interdisciplinary concepts, reviewing theoretical frameworks from a variety of fields and perspectives, such as communication, social psychology, and public relations. You will develop an understanding of all aspects of strategic communication pertaining to risks. Using readings and discussion, you will understand how individuals cognitively process risks and how to leverage trust and knowledge to facilitate public understanding. You will learn crisis communication and management from an organizational perspective. Using case studies and discussions, you will be able to recommend strategies for managing crises in agricultural and natural resource industries. (Typically offered: Irregular)

Agricultural Education, Communications and Technology Courses

AECT 6100V. Special Problems. 1-6 Hour.

Individual investigation of a special problem in agricultural education which is not available through regular courses. These will be directed by a member of the graduate faculty. Prerequisite: Graduate standing. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

AECT 6200V. Special Topics in Agricultural Education, Communications and Technology. 1-4 Hour.

Topics not covered in other courses or a more intensive study of specific topics in agriculture education. Prerequisite: Graduate standing. (Typically offered: Irregular)

AECT 63001. Doctoral Seminar. 1 Hour.

The seminar provides doctoral students a critical review of current research in agricultural and extension education, communication, leadership, and technology, an opportunity for collaboration and mentorship with peers, faculty and visiting scholars, and professional development. The presentation of a doctoral research proposal and research findings is expected of all students. This course may be repeated for up to three hours of degree credit. Prerequisite: Admission in doctoral program. (Typically offered: Fall and Spring) May be repeated for up to 3 hours of degree credit.

AECT 69003. Emerging Scholarship in the Discipline. 3 Hours.

This course surveys recent scholarship in the discipline of agricultural education, communications and technology, with a special focus on recent literature highlighting research, teaching, and service across the discourse communities of ag education, ag communications, ag systems technology management, and ag leadership. Prerequisite: Graduate standing. (Typically offered: Fall Odd Years)

AECT 7000V. PhD Dissertation. 1-18 Hour.

PhD dissertation. Prerequisite: Graduate standing and approval of dissertation chair. (Typically offered: Fall, Spring and Summer) May be repeated for degree credit.

Agricultural Education Courses

AGED 50001. Master's Seminar. 1 Hour.

Presentations and discussion of graduate student research as well as review of current literature and topics of current interest by students and faculty. All graduate students will make at least one formal presentation. Prerequisite: Graduate standing. (Typically offered: Fall and Spring) May be repeated for up to 3 hours of degree credit.

AGED 50503. Philosophy of Agricultural and Extension Education. 3 Hours.

An examination and analysis of social and economic events leading to the establishment and maintenance of federal, state, county, and local agricultural education programs. Lecture 3 hours per week. Prerequisite: Graduate standing. (Typically offered: Spring)

AGED 5100V. Special Problems. 1-6 Hour.

Individual investigation of a special problem in agricultural education which is not available through regular courses. These will be directed by a member of the graduate faculty. Prerequisite: Graduate standing. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

AGED 51103. Undergraduate Researchers Improving Student Experiences. 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. Prerequisite: AGED 54603 or HESC 54603 or other instructor approved Research Methods course. (Typically offered: Spring)

AGED 5200V. Special Topics in Agricultural and Extension Education. 1-4 Hour.

Topics not covered in other courses or a more intensive study of specific topics in agriculture education. Prerequisite: Graduate standing. (Typically offered: Irregular) May be repeated for degree credit.

AGED 54101. Thesis Proposal Development. 1 Hour.

The purpose of this course is to assist graduate students in the preparation of their thesis or dissertation research proposal. Students will produce the first three chapters of their thesis by the end of the course. Prerequisite: AGED 54603 or HESC 54603. (Typically offered: Spring)

AGED 54201. Grant Writing. 1 Hour.

This course provides students with the experience of navigating the research grant writing process, covering the process from idea conception through planning, proposing, receiving, executing grant-funded projects. Students will write an independent grant proposal as a major assignment in this course. Prerequisite: Graduate standing. (Typically offered: Fall)

AGED 54301. Technical Communication in the Social Sciences. 1 Hour.

This course focuses on audience identification, writing, editing, formatting and production of social science-based materials for publication. Much of the course content is in the context of developing the findings, conclusions, and recommendations of the master's thesis or other research manuscript. Principles include communicating information relevant to human subject research in agriculture, natural resources, and life sciences to research peers. Course delivery is asynchronous. Prerequisite: Graduate standing. (Typically offered: Spring)

AGED 54403. 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. Graduate degree credit will not be given for both AGED 44403 and AGED 54403. (Typically offered: Fall Odd Years)

AGED 54603. Research Methodology in the Social Sciences. 3 Hours.

Logical structure and the method of science. Basic elements of research design; observation, measurement, analytic method, interpretation, verification, presentation of results. Applications to research in economic or sociological problems of agriculture and human environmental sciences. Prerequisite: Graduate standing. (Typically offered: Fall)

This course is cross-listed with HESC 54603.

AGED 54703. Interpreting Social Data in Agriculture. 3 Hours.

The development of competencies in analyzing, interpreting and reporting the results of analyses of social science data in agriculturally related professions. Students will select appropriate analysis techniques and procedures for various problems, analyze data, and interpret and report the results of statistical analyses in narrative and tabular form. (Typically offered: Fall)

AGED 54903. Survey Design and Scale Development. 3 Hours.

This course is designed to provide the expertise required to design and conduct survey research. Students will understand the instruments (scales/questionnaire) used in data collection processes and acquire the statistical skills necessary to develop and test these survey instruments. This course uses both theory and practice. Hands-on training will be provided via SPSS package for data analyses, and Qualtrics will be used for web-based surveys. Prerequisite: 3 hours of graduate level statistics coursework and HESC 54603 or AGED 54603 or instructor consent. (Typically offered: Summer)

This course is cross-listed with HESC 50503.

AGED 5750V. Internship in Agricultural Education. 1-6 Hour.

Scheduled practical field experiences under supervision of a professional practitioner in off-campus secondary school systems. Emphasis includes classroom preparation, teaching, and student evaluation. (Typically offered: Fall, Spring and Summer)

AGED 59903. Global Horticulture and Human Nutrition to Enhance Community Resilience and Food Security. 3 Hours.

This course covers three broad areas (Global Horticulture, Sustainable International Development, Human Health and Nutrition) and experts on three campuses created the instruction. The course is intended to be multi-disciplinary, and students should use their contextual knowledge to add to weekly discussions. Prerequisite: Graduate standing. (Typically offered: Spring)

This course is cross-listed with FDSC 59903, HORT 59903.

AGED 6000V. Master's Thesis. 1-6 Hour.

Master's Thesis. Prerequisite: Graduate standing. (Typically offered: Fall, Spring and Summer) May be repeated for degree credit.

Agricultural Leadership Courses

AGLE 50303. Developing Leadership in Agricultural Organizations. 3 Hours.

Organizational concepts of leadership; administrative styles and structures; leadership for boards, committees, governmental bodies, and review of societal and political processes. Prerequisite: Graduate standing. (Typically offered: Fall)

AGLE 5100V. Special Problems. 1-6 Hour.

Individual investigation of a special problem in agricultural education which is not available through regular courses. These will be directed by a member of the graduate faculty. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

AGLE 51503. 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. Graduate degree credit will not be given for both AGLE 41503 and AGLE 51503. (Typically offered: Fall)

AGLE 51603. Leadership Analysis Through Film. 3 Hours.

Films are a catalyst (Clemens, 1999). 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. (Typically offered: Spring and Summer)

AGLE 5200V. Special Topics. 1-4 Hour.

Topics not covered in other courses or a more intensive study of specific topics in agricultural leadership. (Typically offered: Irregular) May be repeated for degree credit.

AGLE 5750V. Internship in Agricultural Leadership. 1-6 Hour.

Scheduled practical field experiences under supervision of a professional practitioner. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

This course is cross-listed with ACOM 5750V, ASTM 5750V, EXED 5750V.

Agricultural Systems Technology Management Courses

ASTM 5010V. 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. Graduate degree credit will not be given for both ASTM 4020V and ASTM 5010V. (Typically offered: Irregular) May be repeated for degree credit.

ASTM 5100V. Special Problems in Ag Systems Technology. 1-4 Hour.

Individual investigation of a special problem in agricultural communications which is not available through regular courses. These will be directed by a member of the graduate faculty. (Typically offered: Irregular) May be repeated for up to 4 hours of degree credit.

ASTM 52003. 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. Graduate degree credit will not be given for both ASTM 42003 and ASTM 52003. Corequisite: Lab component. Prerequisite: MATH 11003. (Typically offered: Fall Even Years)

ASTM 5750V. Internship in Agricultural Systems. 1-6 Hour.

Scheduled practical field experiences under supervision of a professional practitioner. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.

This course is cross-listed with ACOM 5750V, AGLE 5750V, EXED 5750V.

ASTM 59703. 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. Graduate degree credit will not be given for both ASTM 49703 and ASTM 59703. Corequisite: Lab component. (Typically offered: Spring)