AEC 5032 Agricultural Media Writing 3 Credits  
*Grading Scheme:* Letter Grade  
Varied media writing assignments: feature stories, news releases, and video.  
*Prerequisite:* AEC 5541.

AEC 5037 Agricultural Media Production 3 Credits  
*Grading Scheme:* Letter Grade  
Various agricultural media production assignments. Developing agricultural websites and publications.  
*Prerequisite:* AEC 5541.

AEC 5060 Public Opinion and Agricultural and Natural Resource Issues 3 Credits  
*Grading Scheme:* Letter Grade  
Public opinion measurement and agenda setting. Media treatment, public opinion, and public relations/public information activity on issues affecting agricultural production and trade.

AEC 5074 Agriculture, Resources, People, and the Environment: A Global Perspective 3 Credits  
*Grading Scheme:* Letter Grade  
Interdependence in the global context, and the need to cultivate a lifelong global perspective.

AEC 5201 Teaching in Colleges of Agricultural and Life Sciences 3 Credits  
*Grading Scheme:* Letter Grade  
Theories, principles, and practices associated with effective teaching and learning in higher education.  
*Prerequisite:* Graduate standing.

AEC 5203 Advanced Teaching in Colleges of Agricultural and Life Sciences 3 Credits  
*Grading Scheme:* Letter Grade  
Advanced theories, principles, and practices associated with effective teaching and learning in the agricultural and life sciences. Emphasis will be on selecting and implementing a variety of teaching methods.  
*Prerequisite:* AEC 5201 or approval of the instructor.

AEC 5206 Teaching Methods in Agricultural Education 3 Credits  
*Grading Scheme:* Letter Grade  
Teaching methodology course that focuses on the selection and use of teaching strategies, methods/approaches, and techniques; evaluating learning; managing learning environments; and classroom management for teaching agricultural subjects in formal educational settings.

AEC 5227 Teaching in Agricultural Education Laboratory Facilities 3 Credits  
*Grading Scheme:* Letter Grade  
This course is designed to introduce pre-service agricultural education teachers to laboratory integration into the agricultural education curriculum at the middle school and secondary school level.  
*Prerequisite:* Admission to state approved agriculture teacher certification program.

AEC 5302 Professional Skill Development in Agriscience Education I 1-3 Credits, Max 9 Credits  
*Grading Scheme:* Letter Grade  
Development and enhancement of technical agricultural and scientific knowledge and skills by professional agriscience teachers.  
*Prerequisite:* Teaching experience.

AEC 5324 Philosophy and Development of Agricultural Education 3 Credits  
*Grading Scheme:* Letter Grade  
An analysis of evolving concepts and philosophies of agricultural education programs with emphasis upon history, legislation, and principles underlying organization and practice.  
*Prerequisite:* Admission to AEC state-approved graduate-level teacher certification program.

AEC 5416 Critical and Creative Thinking in Problem Solving and Decision Making 3 Credits  
*Grading Scheme:* Letter Grade  
Creating a foundation for effective leadership practice through the analysis and development of critical and creative thinking skills and dispositions as applied to dynamic organizational and community contexts. Contexts include agriculture, life sciences, natural resources, and related settings.

AEC 5440 Interpersonal Leadership in Agricultural and Life Sciences 3 Credits  
*Grading Scheme:* Letter Grade  
Theory, research, and practices that create a foundation for self-awareness, emotional intelligence, relationship building, and leadership within the broad contexts of agriculture and life sciences and beyond.

AEC 5454 Leadership Development for Extension and Community Nonprofit Organizations 3 Credits  
*Grading Scheme:* Letter Grade  
Application of concepts related to developing leaders for organizing and maintaining extension and community nonprofit organizations.

AEC 5501 Professional Skill Development in Agriscience Education II 1-3 Credits, Max 9 Credits  
*Grading Scheme:* Letter Grade  
Advanced level of development and enhancement of technical agriculture and scientific knowledge and skills by professional agriscience educators.  
*Prerequisite:* AEC 5302.

AEC 5541 Communication and Instructional Technologies in Agricultural and Life Sciences 3 Credits  
*Grading Scheme:* Letter Grade  
Planning and producing written and visual instructional and communication materials for programs in the agricultural and life sciences. Requires a major instructional project or communication campaign.

AEC 5544 Curriculum Development and Assessment Techniques in Emerging Agricultural Technologies 3 Credits  
*Grading Scheme:* Letter Grade  
Principles and practices used in developing agricultural education curriculum from developing objectives through instructional plans. Assessing student learning and implementing curriculum.

AEC 5545 Special Methods in Teaching Agriculture 3 Credits  
*Grading Scheme:* Letter Grade  
Teaching methods for active learning, critical, creative and evaluative thinking in the agricultural education classroom. Strategies for managing student behavior, utilizing instructional technology and utilizing FFA and SAE as teaching tools.

AEC 5546 Program Planning in Agricultural Education 3 Credits  
*Grading Scheme:* Letter Grade  
Principles and practices used in designing agricultural education program plans for effective and total program development.
AEC 6205 Advanced Curriculum and Teaching Methods 3 Credits
Grading Scheme: Letter Grade
An in-depth analysis and application of curriculum development and teaching method theories applied in an agricultural and natural resources education setting.
Prerequisite: AEC 5206 or equivalent.

AEC 6210 Designing Educational Programs in Agricultural Settings 3 Credits
Grading Scheme: Letter Grade
Designing Educational Programs in Agricultural Settings

AEC 6211 Delivering Educational Programs in Agricultural Settings 3 Credits
Grading Scheme: Letter Grade
This course will be focusing on delivering educational programs in formal and nonformal settings. Emphasis will be placed on balancing theoretical and practical development and delivery of educational programs.

AEC 6212 Teacher Education in Agriculture 3 Credits
Grading Scheme: Letter Grade
Preparing future agricultural teacher educators with the knowledge and skills needed to provide leadership in a university teacher education program. Students will investigate various models of teacher education and determine the composition of a well-developed agriculture teacher education program.

AEC 6229 Laboratory Instruction: Theory and Practice 3 Credits
Grading Scheme: Letter Grade
Research and theoretical foundations underlying the aspects of planning, management, teaching, evaluation, safety, and facility design: discussed in the context of laboratory instruction.

AEC 6300 Methodology of Planned Change 3 Credits
Grading Scheme: Letter Grade
Processes by which professional change agents influence the introduction, adoption, and diffusion of technological changes. Applicable to those who are responsible for bringing about change.

AEC 6316 From America to Zimbabwe: An Overview of International Extension Systems 3 Credits
Grading Scheme: Letter Grade
Various extension models and delivery systems, extension partners; linkages and issues affecting extension internationally. Field trip.

AEC 6321 The Land Grant University and University Governance 3 Credits
Grading Scheme: Letter Grade
Implications of change and future pathways for teaching, research and extension, including global perspectives, and the role and philosophy of administrators in governing a complex university.
Prerequisite: None.

AEC 6325 History and Philosophy of Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Analysis of evolving concepts and philosophies. Emphasis on history, legislation, and principles underlining organization and practice. Participation in field experience required.

AEC 6411 Organizational Leadership in Agriculture and Life Sciences 3 Credits
Grading Scheme: Letter Grade
Leadership will be examined as it relates to agriculture and life science based organizations and will provide a knowledge base for effective leadership. Topics will focus on: organizational leadership, culture, structure, relationships, change, conflict and issues within agriculture and life sciences that can impact organizations.

AEC 6419 Communication and Competencies for Global Leadership 3 Credits
Grading Scheme: Letter Grade
Identifying and developing the personal and professional competencies required for effective leadership in an increasingly global society. International communication is included.

AEC 6426 Development of a Volunteer Leadership Program 3 Credits
Grading Scheme: Letter Grade
Identification, recruitment, training, retention, and supervision of volunteer leaders.

AEC 6512 Program Development in Extension Education 3 Credits
Grading Scheme: Letter Grade
Concepts and processes drawn from the social sciences that are relevant to the development of extension education programs.

AEC 6540 Agricultural and Natural Resources Communications Theory and Strategies 3 Credits
Grading Scheme: Letter Grade
Communication theory and concepts as they apply to important agricultural/natural resources issues.

AEC 6543 Teaching and Learning Theory: Applications in Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Contemporary and foundational theory and research on teaching and learning.
Prerequisite: AEC 5206

AEC 6552 Evaluating Programs in Extension Education 3 Credits
Grading Scheme: Letter Grade
Concepts and research drawn from the social sciences relevant to evaluating youth and adult extension programs.

AEC 6611 Agricultural and Extension Adult Education 3 Credits
Grading Scheme: Letter Grade
Concepts and principles related to design, implementation, and evaluation of education programs for adults.

AEC 6704 Extension Administration and Supervision 3 Credits
Grading Scheme: Letter Grade
Principles and practices for effective administration and supervision of the cooperative extension service program at the county and state levels.

AEC 6767 Research Strategies in Agricultural Education and Communication 3 Credits
Grading Scheme: Letter Grade
Application of principles, practices, and strategies for conducting behavioral research in agricultural and natural resource professions.

AEC 6905 Problems in Agricultural and Extension Education 1-3 Credits, Max 8 Credits
Grading Scheme: Letter Grade
For advanced students to select and study a problem related to agricultural and/or extension education.
Prerequisite: consent of department chair.

AEC 6910 Supervised Research 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Research

AEC 6912 Nonthesis Research in Agricultural and Extension Education 1-3 Credits, Max 6 Credits
Grading Scheme: Letter Grade
Library and workshop related to methods in agricultural and extension education, including study of research work, review of publications, development of written reports.
AEC 6932 Special Topics In Agricultural Education and Communication
1-3 Credits
Grading Scheme: Letter Grade
Explores contemporary and emerging topics in agricultural education and communication.

AEC 6933 Seminar in Agricultural Education and Communication 1-3
Credits, Max 3 Credits
Grading Scheme: Letter Grade
Exploration of current topics and trends.

AEC 6940 Supervised Teaching 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Teaching

AEC 6945 Practicum in Agricultural Education and Communication 1-9
Credits, Max 9 Credits
Grading Scheme: Letter Grade
An individual program whereby students are apprenticed to expert teachers to gain practical experience in a school-based agriscience program.
Prerequisite: Successful completion of all three portions of the Florida Teacher Certification Examination (FTCE) - General Knowledge, Professional Education, and Agriculture 6-12.

AEC 6947 Experiential Learning in Agricultural Education 3 Credits
Grading Scheme: Letter Grade
Focuses on applying experiential learning theory in agricultural education through classroom-based lessons, project-based learning, service learning, guided inquiry, field trips, internships/externships, study abroad and outdoor/adventure learning.
Prerequisite: Graduate standing or consent of instructor.

AEC 6971 Research for Master's Thesis 1-15 Credits
Grading Scheme: S/U
Research for Master's Thesis

AEC 6980 Thesis/Dissertation Proposal Development 3 Credits
Grading Scheme: Letter Grade
Designed to assist students in the preparation of their thesis or dissertation research proposal. Students will submit an acceptable draft of the first three chapters of their thesis/dissertation proposal by the end of the course.
Prerequisite: AEC 6767 or equivalent.

AEC 7979 Advanced Research 1-12 Credits
Grading Scheme: S/U
Research for doctoral students before admission to candidacy. Designed for students with a master's degree in the field of study or for students who have been accepted for a doctoral program. Not appropriate for students who have been admitted to candidacy.

AEC 7980 Research for Doctoral Dissertation 1-15 Credits
Grading Scheme: S/U
Research for Doctoral Dissertation