

# Agricultural and Extension Education (AEE)

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## **AEE 101 Introduction to Career and Technical Education** (1 credit hours)

Overview of career and technical education programs, objectives, and outcomes in secondary schools. Philosophy of career and technical education and how career and technical education programs fit into the overall mission of secondary education. Mission of agricultural education, major program objectives, and introduction to the curricula taught within the state. Roles and responsibilities of CTE teachers with specific emphasis on agricultural education teachers' roles and responsibilities. Historical context of agricultural education and other career and technical education programs, including major legislation affecting development of career and technical education.

*Typically offered in Fall only*

## **AEE 103 Fundamentals of Agricultural and Extension Education** (1 credit hours)

Introduction to the scope, purpose, and objectives of university education with an emphasis on agricultural education, extension education, and agricultural communications. Students will explore College and departmental resources, academic policies and procedures, the agricultural industry, career opportunities, and current trends and issues in agriculture. Cannot receive credit for both AEE 103 and ALS 103

*Typically offered in Fall only*

## **AEE 141 Computer Applications in the Agricultural Institute** (2 credit hours)

Introduction to computing concepts and the computing infrastructure in the Agricultural Institute. Use of computing hardware and software to perform common tasks, explore networked computer resources and solve problems associated with the various curricula in the Agricultural Institute. BOSTICK

*Typically offered in Spring only*

## **AEE 206 Introduction to Teaching Agriculture** (3 credit hours)

Introduction to teaching agricultural education in middle and secondary schools and collaborative efforts for teaching agricultural education to adults as rural community situations dictate. Field experiences include three hours per week of structured observations of classroom teachers, teacher assistant activities, and reflections of the experience.

*Typically offered in Fall only*

## **AEE 208/ANS 208/PB 208 Agricultural Biotechnology: Issues and Implications** (3 credit hours)

Trends and issues of agricultural biotechnology in today's society are addressed while covering the basic biological science behind the technology. Applications of and policy issues associated with plant, animal, and environmental biotechnology used in the agricultural industry are examined from an interdisciplinary approach.

Prerequisite: (BIO 105 or BIO 115 or BIO 181 or BIO 183)

*GEP Interdisciplinary Perspectives*

*Typically offered in Spring and Summer*

## **AEE 226 Computer Applications and Information Technology in Agricultural & Extension Ed** (3 credit hours)

Use of computers and commercially produced agricultural software; the computer as a management tool; agricultural occupational applications of the computer; a multimedia instructional tool in agricultural classrooms and training situations; use of technology for processing information and imaging; network access; and electronic communications.

*Typically offered in Fall and Spring*

## **AEE 230 Introduction to Cooperative Extension** (3 credit hours)

This course is designed for all students who are interested pursuing a career with the cooperative extension service. An introduction to the cooperative extension mission, philosophy, history, organization, structure, administration, program areas, extension program development, extension teaching and delivery methods, and the involvement and use of volunteers. Students are expected to provide their own transportation for outside of class activities and assignments.

*Typically offered in Fall only*

## **AEE 303 Administration and Supervision of Student Organizations** (3 credit hours)

Principles and techniques for organizing, administering and supervising student organization activities.

Prerequisite: AEE 206

*Typically offered in Spring only*

## **AEE 311 Communication Methods and Media** (3 credit hours)

Foundations of agricultural communications. Technologies of agricultural communication and the systematic approach to the development of agricultural communication materials. Development of applied skills in design, production, evaluation, and dissemination of information unique to agricultural sciences and media.

Prerequisite: ENG 101

*Typically offered in Fall and Spring*

## **AEE 322 Experiential Learning in Agriculture** (3 credit hours)

Planning, organizing, implementing, supervising and evaluating Supervised Agricultural Experience (SAE) programs in agriculture.

Prerequisite: AEE 206

*Typically offered in Fall only*

## **AEE 323 Leadership Development in Agriculture and Life Sciences** (3 credit hours)

AEE 323 is designed to introduce you to the awesome complexity of leadership. Leadership educators believe that leadership can be learned. In this course, we study leadership theory to help us understand our leadership potential, the potential of others, and the impact great leadership can have on people, organizations, and society. We separate skills you gain from going out and doing leadership (the do) from theories that provide foundations for leadership (the think). Effective leadership is important in all contexts, including food and agriculture. We believe it is ESSENTIAL that effective leaders both THINK and DO!

*GEP Social Sciences*

*Typically offered in Fall and Spring*

**AEE 325 Planning and Delivering Non-Formal Education** (3 credit hours)

Adult learning theory and practice, including planning non-formal educational programs for adults, methods of instructional delivery, effective use of instructional technology, marketing educational programs, and evaluation of educational outcomes. Microteaching (practice teaching presentations) and group presentations required as part of laboratory assignments.

*Typically offered in Fall only*

**AEE 326 Teaching Diverse Learners in AED** (3 credit hours)

Legislation and issues regarding diverse learners in middle and high school agricultural education are examined. Discussion and practice in planning and facilitating teaching strategies to help those with special needs in an agricultural setting are emphasized. Techniques to integrate reading and writing into the curriculum are identified and practiced. Field trips are required.

Prerequisite: AEE 206; Junior standing; and AED Majors only

*Typically offered in Spring only*

**AEE 327 Conducting Summer Programs in Agricultural Education** (1 credit hours)

Field experience emphasizing summer agricultural education programs. Individualized instruction for students during supervised agricultural experience visits and youth organization activities. Professional development and program improvement activities.

Prerequisite: AEE 206, AEE 303, AEE 322, and Corequisite of AEE 426

*Typically offered in Fall only*

**AEE 350 Personal Leadership Development in Agriculture and Life Sciences** (3 credit hours)

This course focuses on the development of each student's capacity to lead in ways that reflect their values and to address big, messy challenges through leadership. Students will examine human behavior through the lenses of authentic and adaptive leadership and work to develop their own capacity for authentic and adaptive leadership. They will apply critical and creative thinking processes to analyze adaptive challenges and develop potential solutions in the realms of agriculture, food, and natural resources.

*GEP Social Sciences*

*Typically offered in Spring only*

**AEE 360 Developing Team Leadership in Agriculture and Life Sciences** (3 credit hours)

Students in this course will study the impact of organized teams and team leaders on the development of agricultural organizations. Principles and techniques involved in creating, organizing and directing teams will be explored. Students will develop skills in team decision-making and communication. Topics of discussion will include: components of a group and team, relationships of group and team members, effectiveness of groups and teams, and communication within groups and teams. This course is designed for students who are interested in positions of leadership and who want to learn more about making the groups and teams they work with more effective.

Prerequisite: AEE 323-Leadership Development in Agriculture

*Typically offered in Fall only*

**AEE 423 Practicum in Agricultural Extension/Industry** (8 credit hours)

Participation in professional work experiences in preparation for effective leadership positions in the Cooperative Extension Service or the agribusiness industry.

Prerequisite: AEE 230, AEE 325, and Corequisite of AEE 490

*Typically offered in Spring and Summer*

**AEE 424 Planning Agricultural Educational Programs** (3 credit hours)

Principles of program planning applied to educational programs in agriculture; includes theory and field experiences in planning, organizing, and evaluating high school and adult education programs.

Prerequisite: AEE(ED) 426, Corequisite: AEE(ED) 427

*Typically offered in Spring only*

**AEE 426 Methods of Teaching Agriculture** (3 credit hours)

Discussion and practice in planning and presenting instruction in agriculture in formal and informal settings. Principles and application of approaches to teaching and organizing instruction, motivating students, developing instructional objectives, selecting and using teaching techniques, evaluating instruction, and managing classroom and laboratory instruction.

Prerequisite: Junior standing.

*Typically offered in Fall only*

**AEE 427 Student Teaching in Agriculture** (8 credit hours)

Skills and techniques involved in teaching vocational agriculture through practice in a public school setting with concurrent on-campus seminars.

Prerequisite: AEE (ED) 426; Admission to Professional Semester,

Corequisite: AEE (ED) 490, AEE (ED) 424;

*Typically offered in Spring only*

**AEE 433/AEE 533 Leadership and Management of Volunteers in Agricultural and Extension Education** (3 credit hours)

This course is intended to prepare students to be effective managers of volunteer programs. Theory will be emphasized in the course because it is essential to be grounded in theory in order to apply it. Major topics of the course will include, but are not limited to: volunteer recruitment, training, evaluation and reward. Students will be required to be active in and outside of class sessions, including a 20-hour field experience. Students must provide their own transportation for field trips and outside of class activities. Cannot receive credit for both AEE 433 and 533.

Prerequisite: Junior standing

*Typically offered in Fall only*

**AEE 435 Professional Presentations in Agricultural Organizations** (3 credit hours)

This course teaches effective listening strategies, communication strategies, interpersonal skills and presentation strategies essential for use in today's workplace. AEE 435 includes strategies and techniques for effective presentations in the food, agricultural, natural resources, as well as other professions, with emphasis on oral and visual presentation techniques. Presentation skills and strategies for formal and informal situations including conferences, poster presentations along with leadership, conflict resolution, interviewing, negotiation, and group communication theory and strategies will be discussed. Restricted to CALS students; Jr or Sr level status required.

*Typically offered in Fall and Spring*

**AEE 460 Organizational Leadership Development in Agriculture and Life Sciences** (3 credit hours)

This course focuses on the impact of effective leadership in organizations in both theory and practice. Students will examine the major theories and studies that are most relevant and informative with the regard to leadership in organizations. Students will develop skills in decision-making, management of organizations, and ethical leadership related to agricultural organizations.

Prerequisite: AEE 323-Leadership Development in Agriculture

*Typically offered in Spring only*

**AEE 478 Advanced Issues in Extension Education** (3 credit hours)

Advanced issues and trends contributing to the administration, organization, and structure of extension education in a changing world. Senior standing required.

Prerequisite: AEE 230

*Typically offered in Spring only*

**AEE 490 Seminar in Agricultural and Extension Education** (3 credit hours)

Capstone experience in Leadership in Agriculture and Life Sciences for Agricultural Sciences majors. Students will apply theories and concepts from their leadership courses to a planned leadership experience. Reflection on and documentation of intentional leadership experiences will lead to a final presentation in the course of leadership lessons learned and areas for continued development.

Prerequisite: Senior Standing and students in 11AGSBS and 11EXTEDBS

*Typically offered in Spring only*

**AEE 491 Seminar in Agricultural Education** (1 credit hours)

This course helps students analyze the opportunities and challenges facing teachers of agriculture as they prepare for their careers. Topics include balancing work and professional life as a teacher, portfolio assessments of teachers and programs, classroom management, teacher liability, and preparation for the job search in agricultural education.

Corequisites: AEE 424 and AEE 427

*Typically offered in Fall, Spring, and Summer*

**AEE 492 External Learning Experience in Agricultural and Extension Education** (1-6 credit hours)

Learning experience within an academic framework that utilizes facilities and resources external to the campus. Contact and arrangements with prospective employers initiated by the student and approved by the faculty adviser, prospective employer, and the departmental teaching coordinator prior to the experience. Not intended for teaching licensure for students in AEE

Prerequisite: Sophomore standing

*Typically offered in Fall and Spring*

**AEE 493 Special Problems in Agriculture and Extension Education** (1-6 credit hours)

A learning experience in agriculture and extension education within an academic framework that utilizes departmental campus facilities and resources. Arrangements must be initiated by the student and approved by a faculty adviser and the departmental teaching coordinator. Not intended for teacher licensure for students in AEE.

Prerequisite: Sophomore standing

*Typically offered in Fall, Spring, and Summer*

**AEE 495 Special Topics in Agricultural and Extension Education** (1-3 credit hours)

Offered as needed to present material not normally available in regular course offerings or for offerings of new courses on a trial basis.

*Typically offered in Fall, Spring, and Summer*

**AEE 501 Foundations Of Agricultural and Extension Education** (3 credit hours)

Development and organization of agricultural and extension education in America from colonial times to the present. Emphasis on role of societal and scientific changes, the federal government and philosophy on evolution of agricultural and extension education.

*Typically offered in Fall and Summer*

**AEE 507 Comparative Agricultural and Extension Education** (3 credit hours)

Organization and operation of formal and nonformal agricultural education and extension systems in the United States and in other countries. Field trip required - cost approx. \$175.00.

*Typically offered in Fall only*

**AEE 526 Information Technologies in Agricultural and Extension Education** (3 credit hours)

Principles, theory and techniques of using information technologies to provide instruction to learners, both in person and at a distance, in formal and non formal educational settings.

*Typically offered in Spring only*

**AEE 533/AEE 433 Leadership and Management of Volunteers in Agricultural and Extension Education** (3 credit hours)

This course is intended to prepare students to be effective managers of volunteer programs. Theory will be emphasized in the course because it is essential to be grounded in theory in order to apply it. Major topics of the course will include, but are not limited to: volunteer recruitment, training, evaluation and reward. Students will be required to be active in and outside of class sessions, including a 20-hour field experience. Students must provide their own transportation for field trips and outside of class activities. Cannot receive credit for both AEE 433 and 533.

Prerequisite: Junior standing

*Typically offered in Fall and Spring*

**AEE 820 Special Problems in Agricultural and Extension Education** (1-6 credit hours)

Exploration of topics of special interest not covered by existing courses by individual students under faculty member's directions. Readings and independent study, problems or research not related to a thesis.

*Typically offered in Fall, Spring, and Summer*

**AEE 841 Practicum in Agricultural and Extension Education** (1-6 credit hours)

Faculty-supervised practicum in an educational, extension or agricultural industry setting.

*Typically offered in Fall, Spring, and Summer*

**AEE 885 Doctoral Supervised Teaching** (1-3 credit hours)

Teaching experience under the mentorship of faculty who assist the student in planning for the teaching assignment, observe and provide feedback to the student during the teaching assignment, and evaluate the student upon completion of the assignment.

Prerequisite: Doctoral student

*Typically offered in Fall and Spring*

**AEE 893 Doctoral Supervised Research** (1-9 credit hours)

Instruction in research and research under the mentorship of a member of the Graduate faculty.

Prerequisite: Doctoral student

*Typically offered in Fall, Spring, and Summer*

**AEE 896 Summer Dissertation Research** (1 credit hours)

For graduate students whose programs of work specify no formal course work during a summer session and who will be devoting full time to thesis research.

Prerequisite: Doctoral student

*Typically offered in Summer only*