

ALEC - AG LEADERSHIP, ED & COMM

ALEC 602 Advanced Instructional Design in Agricultural Science

Credits 3. 3 Lecture Hours. Designing instruction to meet learning outcomes, motivate students, and evaluate objectives; learning theories and their impact on the teaching and learning process; choosing appropriate teaching methods for specific content; evaluating the teaching-learning process for improvement within the context of secondary agricultural science classrooms. **Prerequisites:** Graduate classification.

ALEC 603 Experiential Learning

Credits 3. 3 Lecture Hours. Theory and practice in facilitating learning from experiences in formal, informal, and non-formal settings; experiential learning in classroom/laboratory settings, guided inquiry, internships/externships, service learning, project-based learning, and outdoor/adventure learning. **Prerequisite:** Graduate classification.

ALEC 605 Facilitating Complete Secondary Agricultural Science Programs

Credits 3. 3 Lecture Hours. Theory and practice in facilitating secondary agricultural science programs that include classroom instruction, supervised experience, and youth leadership development. Designed for students preparing to teach agricultural science in Texas public schools. **Prerequisite:** Graduate classification.

ALEC 606 Foundations of Leadership Theory

Credits 3. 3 Lecture Hours. Theory and Practice of leadership theory foundational to leadership education. Focus on analysis of leadership theories and models; synthesis of leadership theory as a philosophy; and application of leadership theories in various professional settings. **Prerequisite:** Graduate classification.

ALEC 607 Youth Leadership Programs

Credits 3. 3 Lecture Hours. Methods and procedures of organizing and conducting youth leadership programs in school and non-school settings. **Prerequisite:** Graduate classification.

ALEC 608 Leadership of Volunteers

Credits 3. 3 Lecture Hours. Models of volunteerism; reasons for volunteers; assessment and evaluation techniques; task descriptions; organizational relationships. **Prerequisite:** Graduate classification.

ALEC 609 Learning Organizations

Credits 3. 3 Lecture Hours. Theory of instruction to support education in social systems language and archetypes; systems thinking theory including mental models; mastery, team learning, concept models of human organizations. **Prerequisites:** Graduate classification.

ALEC 610 Principles of Adult Education

Credits 3. 3 Lecture Hours. Identification of basic principles motivating adults to learn. Procedures to implement these principles in bringing about changes in adult behavior. **Prerequisite:** Graduate classification.

ALEC 612 Advanced Instructional Design for Online Learning

Credits 3. 3 Lecture Hours. Emphasis on applying learning and teaching theory as the foundation for developing engaging online instruction; designed to pull together theory, concepts, and strategies for a broad understanding of the fundamentals of online learning from the conceptual stage to the development and delivery stages. **Prerequisites:** Graduate classification.

ALEC 613 Techniques in eLearning Development and Delivery

Credits 3. 3 Lecture Hours. Provides the knowledge and skills necessary to develop and deliver effective online courses, training programs, and learning units; specific topics include: management of eLearning projects, needs assessment and audience analysis, creation and editing of documents, images, audio, and video. **Prerequisites:** Graduate classification.

ALEC 615 Philosophy of Agricultural Education

Credits 3. 3 Lecture Hours. Historical and philosophical developments in education that brought about education in agriculture; ideas of individuals that culminated in agricultural education institutions and organizations. **Prerequisite:** Graduate Classification.

ALEC 616 Facilitation of Leadership Programs

Credits 3. 3 Lecture Hours. Investigate models to design leadership education programs; incorporate strategies to enhance the leadership education process; critically analyze leadership education research and group leadership education processes. **Prerequisite:** Graduate classification.

ALEC 617 Leadership in Organizational Culture and Ethics

Credits 3. 3 Lecture Hours. Integration of organizational culture and ethical theories; implications and role of leaders in organizational culture and ethical situations; critical analysis of organizational culture and ethics in agricultural organizations. **Prerequisite:** Graduate classification.

ALEC 618 Leadership of Teams

Credits 3. 3 Lecture Hours. Team development theory within the context of the agricultural industry; emphasis on research on team member behaviors, team decision making models and positive conflict in team environments; examination of principles of building highly effective teams by analysis of the variety of interrelated practices underlying group dynamics within agricultural organizations. **Prerequisite:** Graduate classification.

ALEC 622 Data Collection, Analysis, and Interpretation in Research in ALEC

Credits 3. 3 Lecture Hours. Data Collection, Analysis, and Interpretation in Research in Agricultural Leadership, Education, and Communications. Principles and techniques of data collection, analysis, and interpretation in agricultural leadership, education, and communications; interpretation and implications of finds/results in relation to current research; data analysis performed using statistical package software; collection, analysis, and interpretation to conform to published research in agricultural leadership, education, and communications. **Prerequisite:** Research methods and basic statistics courses; graduate classification.

ALEC 623 Survey of Evaluation Strategies for Agriculture

Credits 3. 3 Lecture Hours. Designed to pull together theory, concepts, and strategies to give a broad understanding of the fundamentals of evaluation and to provide the knowledge and skills necessary to design and administer appropriate and effective evaluations. **Prerequisite:** Graduate classification.

ALEC 625 Program Evaluation and Organizational Accountability

Credits 3. 3 Lecture Hours. Examines the philosophy, methods, and issues of accountability and evaluation necessary to meet expectations of institutional mandates. Special emphasis on analytical tools and performance measures. **Prerequisite:** Graduate classification.

ALEC 630 Guidance and Counseling for Rural Youth

Credits 3. 3 Lecture Hours. Problems of youth with special attention given to rural youth; theories of vocational development reviewed and techniques and procedures developed to help youth make career choices. **Prerequisite:** Graduate classification.

ALEC 631 Development and Planning of Community Education Programs

Credits 3. 3 Lecture Hours. Focuses on the principles, theories, techniques, and applications for developing and planning educational program in a community setting; program development strategies, focusing educational programming in relation to issues identified citizens will be developed and enhanced in this course. **Prerequisite:** Graduate classification.

ALEC 640 Methods of Technological Change

Credits 3. 3 Lecture Hours. Dynamics of cultural change as theoretical framework for planned technological change; methods of planning and implementing change, its effects and how it can be predicted. **Prerequisite:** Graduate classification.

ALEC 644 The Agricultural Advisor in Developing Nations

Credits 3. 3 Lecture Hours. Trends, conditions, critical incidents, techniques, roles and preparation affecting the success of persons desiring to provide technical assistance in projects of agricultural development by serving as agricultural advisors in developing nations, especially in cross-cultural settings. **Prerequisite:** Graduate classification.

ALEC 645 Initiating, Managing and Monitoring Projects of International Agricultural Development

Credits 3. 3 Lecture Hours. Origin of projects in agricultural development involving host governments; procedures in developing contracts with sponsors; duties and responsibilities of contract administrators, project leaders and the home institution; reporting systems, project reviews and evaluation procedures; procedures effective in managing projects. **Prerequisite:** Graduate classification.

ALEC 646 Institutions Serving Agriculture in Developing Nations

Credits 3. 3 Lecture Hours. Comparisons among programs and functions, strengths and weaknesses, organization, and relationships of institutions and agencies in public sectors serving agriculture in developing nations; includes those responsible for agricultural extension, agricultural research, agrarian reform, price stabilization, agricultural credit and agricultural cooperatives. **Prerequisite:** Graduate classification.

ALEC 650 Science Communication and Public Engagement

Credits 3. 3 Lecture Hours. Public engagement of science; communicating effectively about science, technology, engineering, and math; application of basics of science communication; conducting science communication research; influencing science through digital media. **Prerequisites:** Graduate classification.

ALEC 651 Risk Communications in Science and Society

Credits 3. 3 Lecture Hours. Expanding the understanding of risk perceptions and public-focused risk communication related to environmental, agricultural and public health contexts; examination of how risk is defined, assessed, quantified, perceived, and communicated; application of best practices of risk communication to crisis and risk-related events. **Prerequisites:** Graduate classification.

ALEC 670/RPTS 670 Youth Development Programs and Services

Credits 3. 3 Lecture Hours. Principles and practices of youth development supports, opportunities, programs and services; emphasis on the role of out-of-school time settings in youth development; programming considerations related to gender, disability and culture; introduction to evaluation and financing of youth development programs. **Prerequisite:** Graduate classification. **Cross Listing:** RPTS 670/ALEC 670.

ALEC 671/RPTS 671 Practice and Development of Effective Skills for Youth Development

Credits 3. 3 Lecture Hours. Development of skills and competencies needed to successfully manage paid and volunteer staff, design youth programs, address safety and risk management issues; build community support of public, non-profit, and for profit or commercial youth programs and agencies; history and scope of youth serving organizations; programming and staffing strategies; managing, mentoring and training staff; diverse approaches to program curriculum and design; behavior management and recognition of youth participants; youth protection; relevant laws and legal mandates; safety, health and wellness; youth advocacy and engagement; working with parents and community partners; and issues and innovations in youth development. **Prerequisite:** Graduate classification. **Cross Listing:** RPTS 671/ALEC 671.

ALEC 672 Analytic Methods for Managers in the Youth, Agriculture, and Human Service Industries

Credits 3. 3 Lecture Hours. Analysis of current research in youth, agriculture, and human service industries; instruments and analytic methods used in the selection and formulation of research problems. **Prerequisite:** Graduate classification.

ALEC 673/RPTS 673 Grant Writing and Program Evaluation for Youth Development Organizations

Credits 3. 3 Lecture Hours. Development of knowledge and skills to successfully write grant proposals and design program evaluation plans for youth development organizations, including clarifying organization mission and program needs, locating funding opportunities, following grant guidelines and using different methods to evaluation programs. **Prerequisite:** ALEC 670/RPTS 670 or approval of instructor. **Cross Listing:** RPTS 673/ALEC 673.

ALEC 674/RPTS 674 Administration, Management and Leadership in Youth Programs

Credits 3. 3 Lecture Hours. Organizational behavior, administration and management of public, non-profit and for-profit youth programs and agencies; foundations of management and organizational behavior in the context of youth organizations; organizational culture; strategic planning; capacity building; evaluation; marketing and communication; human resource management; financial resource development; budgeting and fiscal management; contemporary issues facing the youth development field. **Prerequisite:** Graduate classification. **Cross Listing:** RPTS 674/ALEC 674.

ALEC 677/RPTS 677 Youth Development Capstone Experience

Credits 3. 3 Lecture Hours. Application of recreation and youth development knowledge to a specific project or program of a cooperating youth development organization. **Prerequisite:** Graduate classification; enrollment in the MRYD program. **Cross Listing:** RPTS 677/ALEC 677.

ALEC 681 Seminar

Credit 1. 1 Lecture Hour. Group study and discussion of current developments in agricultural education; research and legislation as they affect programs in teacher education, agricultural science and related areas of education. **Prerequisite:** Graduate classification.

ALEC 684 Professional Internship

Credits 1 to 6. 1 to 6 Other Hours. On-the-job supervised experience program conducted in the area of the student's specialization. **Prerequisites:** Graduate classification.

ALEC 685 Directed Studies

Credits 1 to 4. 1 to 4 Other Hours. Studies related to classroom, laboratory, supervised activities in agriculture, work experience, extension education and adult educational activities in agricultural programs. **Prerequisite:** Graduate classification.

ALEC 689 Special Topics in...

Credits 1 to 4. 1 to 4 Lecture Hours. Selected topics in an identified area of agricultural education. May be repeated for credit. **Prerequisite:** Graduate classification.

ALEC 690 Theory of Agricultural Education Research

Credits 3. 3 Lecture Hours. Theory and design of research problems in agricultural education; communication of research proposal and results of research; evaluation of current research of faculty and students; review of current research literature. May be taken three times for credit. **Prerequisite:** Graduate classification.

ALEC 691 Research

Credits 1 to 23. 1 to 23 Other Hours. Initiation and completion of research for advanced degree. **Prerequisite:** Graduate classification.

ALEC 692 Professional Study

Credits 1 to 23. 1 to 23 Other Hours. Approved professional study of project undertaken as the terminal requirement for degree of Doctor of Education; preparation of a record of study summarizing the rationale, procedure and results of the completed project. **Prerequisite:** Graduate classification.

ALEC 693 Professional Study in Agricultural Leadership Education and Communications

Credits 1 to 3. 1 to 3 Other Hours. Approved professional paper undertaken as the requirement for the Master of Agriculture. May be taken more than once, but not to exceed 3 hours of credit toward a degree. **Prerequisite:** Graduate classification.

ALEC 695 Frontiers in Research

Credits 3. 3 Lecture Hours. Basic concepts of quantitative and qualitative research; understanding the social science research process; using appropriate methods to address research problems; enabling students to effectively evaluate, consume, and communicate research findings. **Prerequisite:** Graduate classification.

ALEC 696 Qualitative Research Methods

Credits 3. 3 Lecture Hours. Overview of qualitative research in agricultural education including conducting a literature review, writing a working hypothesis, keeping methodological and reflexive journals, developing data gathering tools, performing data analysis, ensuring trustworthiness measures, and writing a research manuscript. **Prerequisites:** ALEC 690 or ALEC 695 and graduate classification.