AFRICAN LANGUAGES
See Linguistics and Germanic, Slavic, Asian and African Languages.

AGRICULTURAL AND EXTENSION EDUCATION  AEE

(American Association for Agricultural Education)

AGRICULTURAL AND EXTENSION EDUCATION - Descriptions

Courses

AFRICAN LANGUAGES

See Linguistics and Germanic, Slavic, Asian and African Languages.

AGRICULTURAL AND EXTENSION EDUCATION  AEE

(Names change effective July 1, 1983. Formerly Agriculture and Natural Resources Education Institute.)

College of Agriculture and Natural Resources

360. Developing Concurrent Work-Education Programs
Fall (2-0) Approval of department.
Planning, organizing and implementing effective concurrent work-education programs for secondary vocational agribusiness and natural resources education students.

361. FFA in Agribusiness and Natural Resources Education
Winter (2-0) Approval of department.
Planning and organizing an effective FFA program as an integral part of a secondary vocational agribusiness and natural resources education program.

362. Developing a Five-Year Plan
Spring (2-0) Approval of department.
Developing and organizing a five-year plan for a comprehensive secondary vocational agribusiness and natural resources education program.

401. Agriculture and Natural Resources Communications
(ANR 401.) Fall, Winter, Spring.
3(2-2) JRN 201 or other writing course and approval of department.
Techniques, strategies and practices in development of agricultural and natural resources information programs. Including writing, public relations, TV and radio production for specialized and general audiences.

402. Agriculture and Natural Resources Communications Internship
(ANR 402.) Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. AEE 401, approval of department.
Internship with professionals in communication field with emphasis on student's areas of interest—writing, radio, TV, publications, etc.

499. Independent Study
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. Juniors and approval of instructor.
Investigation of an aspect of agricultural activities of specific interest to the student and a faculty member.

Agricultural Education in Rural Development
(ED 821P, ANR 821.) Winter. 3(3-0) Approval of department.
Agricultural education at various levels and in different forms for rural development. Formal and non-formal education; planning, conducting and evaluating. Case studies from selected developing countries.

600. Education Through Cooperative Extension
Winter. 3(3-0) AEE 620 or EAD 660 or approval of department. Interdepartmental with the Department of Educational Administration.
Cooperative extension programs in the United States with emphasis on Michigan model: philosophy, history, scope, organizational structure, programs and methods.

810. Planning Programs
Spring of even-numbered years. 3(3-6) AEE 806 or approval of department.
Principles, theories and practices in developing state and local agricultural and extension education programs.

812A. Internship: Beginning Professionals in Agricultural and Extension Education
Fall, Winter, Spring. 1 to 3 credits. May reenroll for a maximum of 3 credits. Approval of department.
Current assignments of beginning professionals used for identifying roles and program characteristics; inventory of state and community resources; establishing mentor networks.

812B. Internship: Experienced Professionals in Agricultural and Extension Education
Fall, Winter, Spring. 1 to 3 credits. May reenroll for a maximum of 3 credits. AEE 812A, EEE 812B.
Current assignments of experienced professionals used for identifying problems and proposing possible solutions; review of trends in society and technology with application to local programs.

820. Developing Courses
Summer. 3(3-0) Approval of department.
Developing and utilizing survey instruments to identify community instructional needs in agricultural and extension education, and designing courses to assist in meeting those needs.

822. Principles and Practices in Directing Concurrent Work Education
Summer of odd-numbered years. 3(3-0) AEE 820 or approval of department.
Principles and practices involved in directing agricultural students in ownership, placement or school land laboratory programs.

824. Instructional Strategies
Spring. 3(3-0) AEE 820 or approval of department.
Strategies and methods for teaching agriculture and natural resources: objectives, mastery learning, demonstrations and others. Application of learning theory.

826. Methods of Teaching Agricultural Mechanics
(ED 831G, ANR 826.) Fall of odd-numbered years. 3(3-0) Approval of department.
Methods of instruction including program planning, scheduling, use of teaching aids, management of buildings, facilities and equipment; the selection, organization, and evaluation of activities in farm mechanics.
AGRICULTURAL ECONOMICS

College of Agriculture and Natural Resources

805. Agricultural Production Economics
Fall. 3(3-0) EC 324, PAM 370.
Economic principles of production. Analysis of inputs yielding services over several periods. Principles underlying present value models and welfare economic concepts. Aggregation of firm results. Deriving production functions and process models.

809. Institutions, Behavior and Performance
Fall. 3(3-0) EC 324, EC 326; or approval of department.
Conceptual approaches to economic analyses of public policy issues and programs with emphasis on the relationships among institutions, behavior of participants and performance.

810. Economics of Public Choice
Winter. 3(3-0) Approval of department. Interdepartmental with the departments of Resource Development and Economics.
Economies of alternative institutions for collective action. Emphasis on property rights and natural resources. Public goods, externalities, non-marginal change, commonwealth, income and power distribution, grants, welfare criteria and market failure.

831. Food Marketing Management
Fall, Spring. 4(4-0) May reenroll for a maximum of 8 credits. Interdepartmental with and administered by the Department of Marketing and Transportation Administration.
Food industry adjustment to changing social, economic and internal company environment. Managerial principles and techniques applied to food processing and distribution. Student interaction with industry, labor and government representatives.

835. Introduction to Econometrics
Spring. 3(3-0) EC 325, STT 422; not open to students with credit in EC 839.
Interdepartmental with and administered by the Department of Economics.

837. Applied Operations Research
Spring. 4(4-0) EC 324, PAM 370.
Approval of department.
Use and interpretation of operations research techniques for problems encountered by agricultural economists. Emphasis on linear programming and its variations such as transportation models, network analysis, spatial equilibrium models.

839. Topics in Dynamic Agricultural Economics
Winter of even-numbered years. 3(3-0) AEC 837, MTH 480, EC 812B or EC 865A, EC 865B.
Intertemporal analysis of production, resources and investment problems. Firm growth theories, calculus of variations, Pontryagin's maximum principle and dynamic programming. Emphasis on applications and economic interpretation.

841. Industrial Organization of Agricultural Markets
Spring. 3(3-0) EC 324, a junior-level course in agricultural marketing.
Conceptual and analytical approaches to identify and assess market performance. Institutions and market processes for coordinating agricultural systems, issues of organization, control, and public policy.

843. Commodity Market Analysis
Fall. 3(3-0) EC 835 or approval of department.
Projecting short- and long-run demand, supply and prices of agricultural commodities. Data collection, model development and use of computers for understanding and measuring market dynamics. Futures and options markets.

850. Agricultural Production Management in Developing Countries
Winter. 3(3-0) EC 324 or approval of department. Not open to students with credit in FSM 430.
Farm management applications of comparative analysis, forward planning, budgeting, cash flow analysis and computer-aided decision-making. Principles illustrated with developing country case studies.

851. Farm Management
Summer of even-numbered years. 3(3-0) FSM 430 or AEC 850 or approval of department.
Managerial processes for problem solving, planning and controlling. Review of decision literature in cognitive and information sciences. Budgeting, optimizing, scenario and stochastic simulation for predictive and prescriptive purposes.

853. Decision Support Systems for Agriculture
Fall of even-numbered years. 3(3-0) AEC 850; AEC 851 recommended.
Development and design of information systems. Database and modelbase systems with emphasis on decision maker/information systems interfaces. Analyses of systems using case studies.

860. Agricultural Policy in Developed Economies
Winter. 3(3-0) FSM 421, EC 324, EC 326; or approval of department.

861. Agricultural Trade Policies
Fall of odd-numbered years; Summer of even-numbered years. 3(3-0) EC 324, EC 326; or approval of department.
International trade in agricultural products, areas of competition, changes in comparative advantage, interrelationship of national and international policy regional groupings, trade and economic development, current policy proposals.

862. Agriculture in Economic Development
Winter. 3(3-0) EC 324, EC 326, PAM 462; or approval of department.
Agricultural and industrial sector interactions in the development process. Examined from both historical and theoretical perspectives. Theories and models of the agricultural development process. Policy issues in agricultural development.