

# Agribusiness & Applied Economics (AGEC)

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**AGEC 194. Individual Study. 1-3 Credits.**

**AGEC 196. Field Experience. 1-15 Credits.**

**AGEC 199. Special Topics. 1-5 Credits.**

**AGEC 220. World Agricultural Development. 3 Credits.**

Introduction to theories, policies, and practices to increase food production and agricultural development in developing countries. 2 lectures. Prereq: ECON 201.

**AGEC 242. Introduction to Agricultural Management. 3 Credits.**

Economic and managerial concepts related to farm or agribusiness production process, development of cost data, enterprise analysis, organization and management of production inputs. 3 lectures.

**AGEC 244. Agricultural Marketing. 3 Credits.**

Study of the agricultural marketing system to include cash marketing, commodity futures trading, branded products merchandising and the interrelationship of the government and international trade. 3 lectures.

**AGEC 246. Introduction to Agricultural Finance. 3 Credits.**

Introduction to agricultural finance; provides background in farm and agribusiness credit use and evaluation. Discussion of specific financial conditions on farms and in agribusiness. A financial calculator will be required for this course. 3 lectures.

**AGEC 292. Study Abroad. 1-15 Credits.**

**AGEC 294. Individual Study. 1-5 Credits.**

**AGEC 299. Special Topics. 1-5 Credits.**

**AGEC 339. Quantitative Methods & Decision Making. 3 Credits.**

Application of basic probability concepts to decision analysis, introduction to linear programming models, forecasting, and project management. 3 lectures. Prereq: ECON 201 and MATH 146 and CSCI 116.

**AGEC 342. Farm and Agribusiness Management II. 3 Credits.**

Application of production economics principles to farm and agribusiness operations. Economic input-output principles and profit maximization. 3 lectures. Prereq: AGECE 242.

**AGEC 344. Agricultural Price Analysis. 3 Credits.**

Introduction to price analysis in agricultural markets. 3 lectures. Prereq: AGECE 244.

**AGEC 346. Applied Risk Analysis. 3 Credits.**

Development of tools to analyze business and financial risk problems unique to farms and agribusinesses. 3 lectures. Prereq: STAT 330.

**AGEC 347. Principles of Real Estate. 3 Credits.**

Principles and techniques of real estate appraisals, practical application of appraisal principles, and techniques to real property evaluation. Prereq: ECON 201. Cross-listed with BUSN 347.

**AGEC 350. Agrisales. 3 Credits.**

The principles of salesmanship applied to the agricultural business. Topics include attitudes and value systems, basic behavioral patterns, relationship of sales to marketing, selling strategies, preparing for sales calls, making sales presentations, and closing sales. 3 lectures.

**AGEC 360. International Agribusiness Experience. 3 Credits.**

Provides students an applied context for analyzing international agribusiness. Students participate in a self- or pre-arranged experience and research an agribusiness topic in depth prior to and while studying in a foreign country.

**AGEC 371. Export Management. 3 Credits.**

Survey of practices that facilitate increasing a business' export activities, with emphasis on how a business plans to expand its import opportunities.

**AGEC 375. Applied Agricultural Law. 3 Credits.**

Study of laws affecting agriculture and agribusiness including property ownership, financial relations, and environmental regulation.

**AGEC 378. Introduction to Transportation & Logistics. 3 Credits.**

Presents the role and importance of transportation, with detailed discussion of the various modes and their specific characteristics. Covers basic logistics concepts in addition to transportation, including inventory, warehousing, and location decisions. Prereq: ECON 201.

**AGEC 379. Study Tour Abroad. 1-6 Credits.**

**AGEC 394. Individual Study. 1-5 Credits.**

**AGEC 397. Fe/Coop Ed/Internship. 1-4 Credits.**

**AGEC 399. Special Topics. 1-5 Credits.**

**AGEC 420. Integrated Farm and Ranch Management. 3 Credits.**

Intended for persons who will advise or manage farm and ranch operations. Application of all phases of management (including marketing, finance) to crop and livestock production practice. 2 lectures, 1 laboratory. Prereq: AGECE 242, AGECE 244, or AGECE 246.

**AGEC 444. Commodity Trading. 3 Credits.**

Capstone course for commodity marketing option. Advanced work on topics related to marketing of crops. 2 lectures. Prereq: STAT 331 or ECON 410. Coreq: AGECE 339. {Also offered for graduate credit - see AGECE 644.}

**AGEC 445. Agribusiness Industrial Strategy. 3 Credits.**

The course integrates industrial organization topics with specific applications to agribusiness strategy problems. Focus is on industry analysis and issues in competition, strategy, and rivalry from an agribusiness perspective. Prereq: AGECE 344. Coreq: AGECE 339.

**AGEC 446. Agribusiness Finance. 3 Credits.**

Application of financial theory to investment and liability management problems of agribusiness and farm firms. Characteristics, operations, and management of agricultural financial institutions. 3 lectures. Prereq: AGECE 339, AGECE 346. {Also offered for graduate credit - see AGECE 646.}

**AGEC 450. National AgriMarketing Association (NAMA) I. 1 Credit.**

Learn the components of an agribusiness marketing plan and apply this knowledge in the development of a marketing plan for a selected product. 1 lecture.

**AGEC 451. National AgriMarketing Association (NAMA) II. 1 Credit.**

Review the components of an agribusiness marketing plan. Work in teams to prepare written and oral marketing plans for the National NAMA student chapter competition. 1 lecture. May be repeated for credit. Recommended prereq: AGECE 450.

**AGEC 452. Food Laws & Regulations. 3 Credits.**

Regulations, laws, and dynamics governing development of food policy. Prereq: SAFE 470. Cross-listed with CFS 452 and SAFE 452.

**AGEC 472. Advanced Logistical Analysis. 3 Credits.**

Presents major analytical tools and methods used in analyzing logistical strategies. Course emphasis is on application of analytical tools used in quantifying logistical problems by manufacturing, trading, and shipping firms. Prereq: AGECE 378 and AGECE 339 or MGMT 360.

**AGEC 474. Cooperatives. 3 Credits.**

Theory, practice, and evaluation of cooperatives including principles, management, marketing, finance, taxes, legal issues, and adjusting to change. Prereq: ECON 201. Cross-listed with BUSN 474. F, S, Su. {Also offered for graduate credit - see AGECE 674.}.

**AGEC 484. Agricultural Policy. 3 Credits.**

Analysis of the evolution and development of federal food, natural resource, and trade policies and their consequences on the agricultural sector. Exploration of how microeconomic forces influence formulation of macroeconomic agricultural policy. Prereq: ECON 201, Junior standing.

**AGEC 491. Seminar. 1-5 Credits.****AGEC 492. Study Abroad. 1-15 Credits.****AGEC 494. Individual Study. 1-5 Credits.****AGEC 496. Field Experience. 1-15 Credits.****AGEC 499. Special Topics. 1-5 Credits.****AGEC 644. Commodity Trading. 3 Credits.**

Capstone course for commodity marketing option. Advanced work on topics related to marketing of crops. 2 lectures. {Also offered for undergraduate credit - see AGECE 444.}.

**AGEC 646. Agribusiness Finance. 3 Credits.**

Application of financial theory to investment and liability management problems of agribusiness and farm firms. Characteristics, operations, and management of agricultural financial institutions. 3 lectures. {Also offered for undergraduate credit - see AGECE 446.}.

**AGEC 652. Food Laws & Regulations. 3 Credits.**

Regulations, laws, and dynamics governing development of food policy. Cross-listed with CFS 652 and SAFE 652. {Also offered for undergraduate credit - see AGECE 452.}.

**AGEC 674. Cooperatives. 3 Credits.**

Theory, practice, and evaluation of cooperatives including principles, management, marketing, finance, taxes, legal issues, and adjusting to change. Cross-listed with BUSN 674. F, S, Su. {Also offered for undergraduate credit - see AGECE 474.}.

**AGEC 690. Graduate Seminar. 1-3 Credits.****AGEC 695. Field Experience. 1-15 Credits.****AGEC 696. Special Topics. 1-5 Credits.****AGEC 701. Research Philosophy. 1 Credit.**

Role of the scientist, reasoning, values, and decisions. Problem formulation, literature review, hypothesis development, data collection, analysis, and interpretation. 1 lecture.

**AGEC 711. Applied Risk Analysis I. 3 Credits.**

Conceptual foundations of risk, stochastic simulation using @Risk and Model Risk, finance, trading, and strategy are presented. Emphasis is placed on financial instruments, planning for agribusiness firms, trading and risk management in agricultural commodities.

**AGEC 712. Applied Risk Analysis II. 3 Credits.**

Conceptual foundations of risk are presented and applied to production, financial and institutional risk problems. Emphasis is placed on the development and understanding of risk theory; risk assessment and measures, response to risk and risk management tools - with emphasis on portfolio diversification principles/theory of insurance. Prereq: AGECE 711.

**AGEC 720. Food Safety Costs and Benefits Analysis. 3 Credits.**

Theoretical and empirical impacts of food safety costs and benefits. Three lectures. Prereq: SAFE 670, AGECE 741. Cross-listed with SAFE 720.

**AGEC 725. Food Policy. 3 Credits.**

Provides quantitative tools and models used to analyze general food safety policies. Three lectures. Prereq: SAFE 670. Cross-listed with SAFE 725 and CFS 725.

**AGEC 739. Analytical Methods for Applied Economics. 3 Credits.**

Study and application of operations research techniques and other decision methods to problems in agriculture, transportation, and resource management. 3 lectures.

**AGEC 741. Advanced Microeconomics. 3 Credits.**

Advanced analysis of demand, production, and costs; pricing output and resource allocation under various market structures.

**AGEC 743. Advanced Macroeconomics. 3 Credits.**

Advanced analysis of macroeconomic theories; economic growth, business fluctuations, and inflation.

**AGEC 744. Agribusiness I: Agricultural Product Marketing and Agribusiness Strategy. 3 Credits.**

Conceptual foundations of agribusiness strategy, food product marketing, and strategic planning are presented. Emphasis is placed on quantitative strategic decision making for the agribusiness firm.

**AGEC 771. Economics of Transportation Systems. 3 Credits.**

The course will provide an understanding of transportation economics and policy issues facing society. Topics include transportation demand, model costs, transportation competition and market power, transportation regulation, transportation investment, and the economics of transportation safety. Cross-listed with CE 771.

**AGEC 790. Graduate Seminar. 1-3 Credits.****AGEC 791. Temporary/Trial Topics. 1-5 Credits.****AGEC 793. Individual Study/Tutorial. 1-5 Credits.****AGEC 794. Practicum/Internship. 1-15 Credits.****AGEC 795. Field Experience. 1-15 Credits.****AGEC 796. Special Topics. 1-5 Credits.****AGEC 797. Master's Paper. 1-3 Credits.****AGEC 798. Master's Thesis. 1-10 Credits.**