AGEC - AGRICULTURAL ECONOMICS

AGEC 601 Commodity Futures and Options Markets
Credits 3. 3 Lecture Hours.
Price risk management using agricultural commodity futures and options markets, theories of hedging and formulation of optimal hedging strategies, applied hedging strategies evaluated with emphasis on options relative to futures.
Prerequisites: One course in calculus and one course in statistics.

AGEC 603 Land Economics
Credits 3. 3 Lecture Hours.
Application of economic, financial, legal and related concepts and tools for decision making in land management, real estate development and appraisal of land and attendant resources; public and private property rights and current land and resource management issues emphasized; real estate valuation methods and use of electronic information systems studied.
Prerequisite: AGEC 422 or equivalent.

AGEC 604/PSAA 663 Natural Resource Economics
Credits 3. 3 Lecture Hours.
Critical evaluation of policies and procedures in natural resource development and use; identification of problems in resource development, the political-economic decision-making processes and analytical tools which can contribute to economic decisions.
Prerequisite: ECON 323.
Cross Listing: PSAA 663/AGEC 604.

AGEC 605 Rural Real Estate Appraisal and Organization
Credits 3. 3 Lecture Hours.
Concepts of property rights and their valuation; factors affecting the value of these rights are related to general economic theory to explain real estate market process; specific applications of appraisal techniques in valuing urban and rural real properties.
Prerequisite: AGEC 422.

AGEC 606 Water Resource Economics
Credits 3. 3 Lecture Hours.
Examination of economic concepts and tools contributing to the solution of water scarcity problems; development of working knowledge of water resource economics; policy options established and explored; analytical tools for performing policy and project assessment introduced and applied.
Prerequisite: MATH 142.

AGEC 607 Research Methodology
Credits 3. 3 Lecture Hours.
Scientific method in economic research: problem identification and selection, hypothesis testing, assumptions, model selection, data communication; evaluation of research studies and development of thesis prospectus or equivalent.
Prerequisite: MS or PhD graduate classification.

AGEC 608 Economics of Foreign Intervention, Conflict, and Development
Credits 3. 3 Lecture Hours.
Economic models of conflict and development, socio-political models of conflict; conflict and vulnerable groups; advanced quantitative tools and methods in conflict and development research; interaction between poverty, natural resources and conflict in developing countries; role of multilateral, bilateral and strategic stakeholders in conflict resolution and economic development.

AGEC 613 International Agricultural Development Policy
Credits 3. 3 Lecture Hours.
Utilizes real-world examples depicting environments of international development institutions and programs concerning water management, gender, climate change agricultural extension, value chains, agricultural finance and many other issues in developing countries, with emphasis on smallholder agriculture; capstone for the certificate in International Agriculture and Nature Resource Management but available to other majors.
Prerequisites: AGEC 422, AGEC 430, AGEC 452, AGEC 604/PSAA 663, AGEC 606, or other equivalent macroeconomic course.

AGEC 614 Global Food and Agribusiness Policy
Credits 3. 3 Lecture Hours.
Public policies and programs affecting agriculture and agribusiness; development of policies and programs, identifying relevant issues, reviewing means to attain desired goals, and development of methods to evaluate the consequences of alternative farm policies on U.S. agriculture, agribusiness, trade and resources.
Prerequisites: AGEC 619 or ECON 607 and MATH 142.

AGEC 619 Managerial Economics in Agribusiness
Credits 3. 3 Lecture Hours.
Practical application of operational and strategic decision-making tools to agribusiness, focusing on important managerial and economic principles and understanding needed to carry out these functions.
Prerequisites: ECON 323, MATH 142 and STAT 303.

AGEC 620 Food Security, Climate and Conflict
Credits 3. 3 Lecture Hours.
Economic models of food production and consumption in conflict regimes; the micro-economics of violence; the dynamic relationships of climate and agricultural production; potential impacts of climate change on food and socio-political security; food security among insurgent groups; conflict resistant food systems; and the shifting relationships between poor and rich nations in relationship to climate, food and conflict.
Prerequisite: ECON 323 or equivalent, or approval of instructor.

AGEC 621 Econometrics for Agribusiness
Credits 3. 3 Lecture Hours.
Econometric application and practice; analysis and interpretation of economic data for decision making and microcomputer implementation.
Prerequisites: MATH 142; STAT 303; corequisite: ECON 323; ECON 311 or AGEC 430.

AGEC 622 Agribusiness Analysis and Forecasting
Credits 3. 3 Lecture Hours.
Design, construction, use and evaluation of simulation, forecasting and optimization models to solve applied problems confronting decision makers in agribusiness.
Prerequisite: AGEC 621 or approval of instructor.

AGEC 625 Environment of Agribusiness
Credits 3. 3 Lecture Hours.
Analysis of the economic, social, political, technological and legal forces that impact the way in which global agribusiness firms compete; emphasis on intensive case study analysis.
Prerequisites: AGEC 619 and AGEC 621.
AGEC 629 Strategic Agribusiness Management  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 619, AGEC 621 and AGEC 625.  

AGEC 630 Financial Analysis for Agribusiness Firms  
Credits 3. 3 Lecture Hours.  
Prerequisites: ACCT 640 and FINC 635.  

AGEC 634 Rural Financial Markets and Financial Planning  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 635 and 661; ECMT 676; ECON 629 and ECON 630.  

AGEC 636 Agribusiness Markets and Applied Welfare Analysis  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 635 and 661; ECMT 676; ECON 629 and ECON 630.  

AGEC 638 Managerial Economics for Regulatory Science  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 635, AGEC 636, AGEC 637; ECON 629 and ECON 630.  

AGEC 639/SCSC 635 Comparative Global Standards in Food Systems  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 607 and MATH 142.  

AGEC 642 Dynamic Optimization in Agricultural and Applied Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 629 or approval of instructor.  

AGEC 643 Applied Simulation in Agricultural Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 622 and AGEC 661 or approval of instructor.  

AGEC 645 Credits 3. 3 Lecture Hours.  

AGEC 646 Applied Econometric Methods in Agriculture and Resources I  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 635, AGEC 636, AGEC 637; ECON 629 and ECON 630.  

AGEC 652 International Agribusiness Trade Analysis  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 607 and MATH 142.  

AGEC 659 Ecological Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 607 and MATH 142.  

AGEC 661 Applied Econometric Methods in Agriculture and Resources II  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 629 and AGEC 661.  

AGEC 662 Applied Econometric Methods in Agriculture and Resources III  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 629 and ECON 630.  

AGEC 665 Ecological Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 607 and MATH 142.  

AGEC 671 Fundamentals in Agribusiness and Managerial Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: ECON 629 and ECON 630.  

AGEC 672 Fundamentals in Agricultural Markets and Information Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 636 and 661; ECMT 676; ECON 629 and ECON 630.  

AGEC 673 Fundamentals in Resource and Environmental Economics  
Credits 3. 3 Lecture Hours.  
Prerequisites: AGEC 635, AGEC 636, AGEC 637; ECON 629 and ECON 630.
AGEC 676 Frontiers in Markets and Information Economics
Credits 3. 3 Lecture Hours.
Exploration of advanced topics in the field of markets and information economics. May be taken twice for credit.
Prerequisite: Graduate classification.

AGEC 677 Frontiers in Natural Resource and Environmental Economics
Credits 3. 3 Lecture Hours.
Exploration of advanced topics in the field of natural resource and environmental economics. May be taken twice for credit.
Prerequisite: Graduate classification.

AGEC 681 Seminar
Credit 1. 1 Lecture Hour.
Objectives are to define research problems, develop research problem statements with objectives and hypothesis and specify relevant models to accomplish the objectives and develop the skills in written communication.

AGEC 684 Professional Internship
Credits 1 to 3. 1 to 3 Other Hours.
Pre-professional experience within department guidelines conducted in the area of the student's field of interest.
Prerequisite: Graduate classification.

AGEC 685 Directed Studies
Credits 1 to 4. 1 to 4 Other Hours.
Directed individual study of a selected problem in the field of agricultural economics.

AGEC 689 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours.
Selected topics in an identified area of agricultural economics. May be repeated for credit.

AGEC 691 Research
Credits 1 to 23. 1 to 23 Other Hours.
Thesis or dissertation research.

AGEC 693 Professional Study
Credits 1 to 9. 1 to 9 Other Hours.
Professional paper undertaken as a requirement for the Master of Science Non-Thesis or as an elective for the Master of Agribusiness. May be taken more than once, but not to exceed 3 hours of credit towards a degree.
Prerequisite: Approval of instructor.

AGEC 695 Frontiers in Agribusiness and Managerial Economics
Credits 3. 3 Lecture Hours.
Explanation of advanced topics in the field of agribusiness and managerial economics. May be taken two times for credit.
Prerequisite: Graduate classification.