Agricultural & Applied Economics (AAE)

AAE 7223: Professional Solution Selling
(cross-leveled with ABM 4223). This course will reinforce the sales education students gained in ABM 2223, Agricultural Sales. Class will focus on strategic and conceptual selling which are techniques geared toward complex B2B sales. In this course, we will discuss myriad career opportunities in the sales profession. Students will have the opportunity to interact with sales professionals.

Credit Hours: 3
Prerequisites: ABM 2223

AAE 7240: Microeconomics Theory and Applications
(cross-leveled with ABM 4240). This course extends the learning from principles of microeconomics for students of applied economics. The topics in this course prepare students for further study in finance, business management, policy analysis, economic development, and other applications of economic theory. The course stresses development of theoretical models of consumer choice, firm behavior, perfect and imperfect markets, and externalities, balanced by investigation of the assumptions behind these models. Applications of the models to management and policy issues will be assigned throughout the semester.

Credit Hours: 3
Prerequisites: ABM 1041 or ECONOM 1014

AAE 7251: Agricultural Prices
(cross-leveled with ABM 4251). Variations in prices of agricultural products; underlying factors.

Credit Hours: 3
Prerequisites: ABM 2123 and ABM 2225 or STAT 2500

AAE 7295: Agricultural Risk Management
(cross-leveled with ABM 4295). This class will examine the range of risks businesses face and explore ways of characterizing and evaluating those risks.

Credit Hours: 3
Prerequisites: ABM 2183 and ABM 2225 or STAT 2500

AAE 7301: Topics in Agricultural and Applied Economics
Current and new topics not currently offered in applied and/or theoretical areas in Agricultural and Applied Economics.

Credit Hour: 1-6

AAE 7400: Environmental Law, Policy, and Justice
(same as ENV_SC 7400; cross-leveled with ENV_SC 4400). This course will examine the intersection of environmental law, policy, and justice. We will first cover the building blocks of U.S. environmental law, including common law and statutes such as the Clean Air Act and the Clean Water Act. We will then turn to international environmental policy issues such as climate change, marine pollution, and the hazardous waste trade. We will approach these laws and treaties through the lens of equity and environmental justice. The course will use a variety of teaching methods, including lecture and classroom discussion using cold calling and the Socratic Method. We will also have student presentations, guest speakers, a moot court, a negotiation simulation, and a field trip in the Columbia, Missouri area. Graded on A-F basis only.

Credit Hours: 3

Prerequisites: Graduate standing and one course at the level of intermediate microeconomics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAE 7990</td>
<td>Economic Analysis of Policy and Regulation</td>
<td>Cross-leveled with ABM 4990. Apply economic concepts and tools to analyze the policy-making process and the implications of policy for individuals, firms, markets and society. Policy topics include, among other things, agricultural support programs, environmental policy, international trade, international development, and agribusiness regulation.</td>
<td>3</td>
<td>ECONOM 4351</td>
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<tr>
<td>AAE 7995</td>
<td>Economics of Agricultural Production and Distribution</td>
<td>Cross-leveled with ABM 4995. Applies economic principles to agricultural production including price theory, linear programming and uncertainty.</td>
<td>3</td>
<td>ECONOM 3251 and ABM 2225 or STAT 2500</td>
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<tr>
<td>AAE 8001</td>
<td>Advanced Topics in Agricultural and Applied Economics</td>
<td>Analyzes economic logic problems. Current agricultural and applied economic problems.</td>
<td>3</td>
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<tr>
<td>AAE 8050</td>
<td>Economics of Institutions and Organizations</td>
<td>This course expands upon the fundamental principles of neo-classical economics by relaxing traditional behavioral and informational assumptions and by introducing the importance of transaction costs and institutions for economic analysis.</td>
<td>3</td>
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<tr>
<td>AAE 8060</td>
<td>Quantitative Tools for Decision Making and Performance Evaluation</td>
<td>Firm decision-making and evaluation are key concepts in business economics and management. This is an introductory course that focuses on quantitative methods for modeling the decision process and evaluating the performance of Decision-Making Units (DMUs).</td>
<td>3</td>
<td>STAT 4510</td>
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<tr>
<td>AAE 8085</td>
<td>Masters Problems in Agricultural and Applied Economics</td>
<td>Supervised study, research in specialized phases of agricultural and applied economics.</td>
<td>1-99</td>
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<tr>
<td>AAE 8090</td>
<td>Masters Thesis Research in Agricultural and Applied Economics</td>
<td>Independent investigation of advanced nature, leading to dissertation. Graded on a S/U basis only.</td>
<td>1-6</td>
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<tr>
<td>AAE 8265</td>
<td>Agricultural and Food Policy</td>
<td>The course is designed to help students understand how agricultural and food policies are developed and how they can affect farmers, consumers, taxpayers and the environment. Topics include the policy process, farm subsidy programs, crop insurance, nutrition programs, trade agreements, food security, biofuel policies, promotion of organic and local foods and food safety. The primary focus will be U.S. policies, but policies in other countries will also be discussed. Students will develop analytical skills that will prepare them for careers in government, business or academia. Graded on A-F basis only.</td>
<td>3</td>
<td>ECONOM 7351 or equivalent</td>
<td>AAE 9220, AAE 9230</td>
</tr>
<tr>
<td>AAE 8510</td>
<td>Research Methods and Design</td>
<td>Students will learn how to formulate their own research questions and develop and implement a process for answering them. Students will examine the nature of the research process, explore the connection between theory and empirical research, identify viable research topics, critique published research, learn how to structure good arguments, understand the structure of research papers and proposals, plan and manage research activities, and become familiar with research ethics. Graded on A-F basis only.</td>
<td>3</td>
<td>ECONOM 7351 or PUB_AF 8190 or equivalent</td>
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<tr>
<td>AAE 8520</td>
<td>Economics of Transaction and Contracting</td>
<td>This course focuses on the economic incentives underlying transaction relationships and develops and implements a framework for analyzing contract documents governing various kinds of transactions.</td>
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<tr>
<td>AAE 8530</td>
<td>International Agricultural Development Policy</td>
<td>An analytical review of economic policies directed toward stimulating agricultural development in the world's low income countries.</td>
<td>3</td>
<td>ECONOM 7351 and ECONOM 7353</td>
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<tr>
<td>AAE 8540</td>
<td>Masters Non-Thesis Research</td>
<td>Independent investigation of advanced nature. Report required.</td>
<td>1-6</td>
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<tr>
<td>AAE 8550</td>
<td>Natural Resource and Environmental Economics</td>
<td>Contemporary natural resource/environmental problems; natural resource capacity, alternative economic theories, property rights, externalities, market failures, efficient use of exhaustible and renewable resources, and economics of environmental pollution.</td>
<td>3</td>
<td>ECONOM 7351</td>
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<tr>
<td>AAE 8560</td>
<td>Regional Development Issues and Analysis</td>
<td>(Same as PUB_AF 8350). Examines theories of regional growth and development and methods for analysis with applications to current policy issues. Topics include firm location, new economic geography and agglomeration theory, clusters, human capital, migration, social capital, tax and development incentives, and sustainable regional development.</td>
<td>3</td>
<td>ECONOM 7351 or PUB_AF 8190 or equivalent</td>
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<tr>
<td>AAE 8570</td>
<td>Agricultural and Food Policy</td>
<td>The course is designed to help students understand how agricultural and food policies are developed and how they can affect farmers, consumers, taxpayers and the environment. Topics include the policy process, farm subsidy programs, crop insurance, nutrition programs, trade agreements, food security, biofuel policies, promotion of organic and local foods and food safety. The primary focus will be U.S. policies, but policies in other countries will also be discussed. Students will develop analytical skills that will prepare them for careers in government, business or academia. Graded on A-F basis only.</td>
<td>3</td>
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<tr>
<td>AAE 8580</td>
<td>Research Methods and Design</td>
<td>(Same as AG_ED_LD 8510, RU_SOC 8510). This course will give students a foundational understanding of quantitative research methods and design in the social and behavioral sciences. The main objective is to help students identify and formulate their own research questions and develop and implement a process for answering them. Students will examine the nature of the research process, explore the connection between theory and empirical research, identify viable research topics, critique published research, learn how to structure good arguments, understand the structure of research papers and proposals, plan and manage research activities, and become familiar with research ethics. Graded on A-F basis only.</td>
<td>3</td>
<td>ECONOM 7351 and ECONOM 7353</td>
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<tr>
<td>AAE 8590</td>
<td>Masters Non-Thesis Research</td>
<td>Independent investigation of advanced nature. Report required.</td>
<td>1-6</td>
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<tr>
<td>AAE 8600</td>
<td>Natural Resource and Environmental Economics</td>
<td>Contemporary natural resource/environmental problems; natural resource capacity, alternative economic theories, property rights, externalities, market failures, efficient use of exhaustible and renewable resources, and economics of environmental pollution.</td>
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### AAE 8610: Economic and Sociological Approaches to Collective Action
(same as RU_SOC 8610). This course identifies analytical and methodological tools, including rational choice and social capital, to deal with practical problems of collective action in: agricultural cooperatives, rural community development, political interest groups and other mutuals.

**Credit Hours:** 3  
**Prerequisites:** AAE 7972

### AAE 8860: International Comparative Rural Policy
(same as PUB_AF 8860, NAT_R 8860). Compares the rural policy objectives and implementation strategies of various countries, and assesses these policies in terms of economic, social, environmental outcomes and their implications for international relations. Includes 2-weeks of study Abroad. May be repeated for credit. Graded on A-F basis only.

**Credit Hours:** 3  
**Prerequisites:** instructor’s consent

### AAE 9001: Advanced Topics in Economics II

**Credit Hours:** 3

### AAE 9040: Advanced Microeconomics Theory and Applications I
First semester course that rigorously examines the microeconomic theory of producer and consumer behavior, combined with applications of the theoretical concepts to empirical economic research on agricultural, business, development, and environmental issues. Graded on A-F basis only.

**Credit Hours:** 3  
**Prerequisites:** ECONOM 7351 or instructors consent

### AAE 9042: Advanced Microeconomics Theory and Applications II
Second semester advanced micro theory covering choice under uncertainty, industry structure, game theory, information econ, and political economy of regulation. Includes applications of micro models to issues in agricultural, natural resource, and development sectors.

**Credit Hours:** 3  
**Prerequisites:** AAE 9040

### AAE 9085: Doctoral Problems in Agricultural and Applied Economics
Supervised study, research in specialized phases of agricultural and applied economics.

**Credit Hour:** 1-99  
**Prerequisites:** instructor’s consent

### AAE 9200: Price and Market Analysis
Applies economic theory and quantitative methods to analyze agricultural prices and markets. Examines problem formulation, estimation, and model evaluation applied to the concepts of demand, supply, and prices.

**Credit Hours:** 3  
**Prerequisites:** ECONOM 8451 or ECONOM 8472; STAT 4510

### AAE 9230: Welfare and Consumption Economics
Introduces welfare economic principles; application to problems of resource allocation. Appraises economic policies, programs; consumers’ choice; measurement of consumption; living standards; household decisions and markets relation.

**Credit Hours:** 3  
**Prerequisites:** ECONOM 8451 or instructor’s consent

### AAE 9265: Food, Agricultural and Rural Policy
Application of welfare economics theory to food, agricultural and rural development policy analysis. Historical perspective and economics analysis of contemporary issues in national and international policy and institutions.

**Credit Hours:** 3  
**Prerequisites:** ECONOM 7351 and AAE 9230

### AAE 9510: Organizational Economics I
This course builds on transaction cost-based theories and tools to study the economic underpinnings of intra-firm organization, firm boundaries, and the structure of inter-firm transactions.

**Credit Hours:** 3  
**Prerequisites:** AAE 8050

### AAE 9520: Organizational Economics II
Relationships of neoclassical and new institutional economics to designing organizational strategy and structure. Internal coordination and structure, organizational boundaries, inter-firm rivalry and cooperation, and competitiveness of food system organizations.

**Credit Hours:** 3  
**Prerequisites:** AAE 8050