AGRICULTURE + RESRCE
ECON-AREC (AREC)

Courses

AREC 202 Agricultural and Resource Economics (GT-SS1) Credits: 3 (3-0-0)
Course Description: Introduction to decision-making by consumers, firms, and government and the resulting allocation of resources through markets.
Prerequisite: MATH 117, may be taken concurrently or MATH 118 or MATH 124 or MATH 125 or MATH 126 or MATH 141 or MATH 155 or MATH 159 or MATH 160.
Registration Information: Sections may be offered: Online. Credit not allowed for both AREC 202 and ECON 202.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

Additional Information: Social & Behavioral Sciences 3C, Economic or Political Systems (GT-SS1).

AREC 224 Introduction to Agribusiness Entrepreneurship Credit: 1 (0-0-1)
Course Description: Introductory exposure to entrepreneurship for agribusinesses through presentations by industry professionals.
Prerequisite: AREC 202, may be taken concurrently or ECON 202, may be taken concurrently.
Registration Information: Required field trips. Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: Yes.

AREC 240 Issues in Environmental Economics (GT-SS1) Credits: 3 (3-0-0)
Also Offered As: ECON 240.
Course Description: Discussion and economic analysis of current environmental issues with special emphasis on the impact of economic growth.
Prerequisite: None.
Registration Information: Credit not allowed for both AREC 240 and ECON 240.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

Additional Information: Social & Behavioral Sciences 3C, Economic or Political Systems (GT-SS1).

AREC 305 Agricultural and Resource Enterprise Analysis Credits: 3 (2-2-0)
Course Description: Use of records in agricultural and resource enterprise management; analytical methods, budgets, and planning techniques for improved decision making.
Prerequisite: (CIS 120 or BUS 150 or CS 110) and (AREC 202 or ECON 202).
Registration Information: Sections may be offered: Online. Must register for lecture and laboratory.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AREC 310 Agricultural Marketing Credits: 3 (3-0-0)
Course Description: Market structure, behavior, and performance including futures market and market games theory.
Prerequisite: AREC 202 or ECON 202.
Registration Information: Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

AREC 311 Agricultural and Resource Product Marketing Credits: 3 (3-0-0)
Course Description: Theory and practice of marketing-differentiated agricultural products and natural resource amenities with focus on strategies and market trends.
Prerequisite: AREC 202 or ECON 202.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

AREC 325 Personnel Management in Agriculture Credits: 3 (3-0-0)
Course Description: Human resource issues for agribusiness firms. Managing employees, legal issues, negotiation methods, and benefits packages. Workplace professionalism.
Prerequisite: AREC 202 or ECON 202.
Restriction: .
Registration Information: Sections may be offered: Online.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

AREC 328 Small Agribusiness Management Credits: 3 (3-0-0)
Course Description: Apply business principles to small food enterprises, agribusinesses and cooperatives.
Prerequisite: AREC 202 or ECON 202.
Registration Information: Sections may be offered: Online.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AREC 335 Introduction to Econometrics Credits: 3 (3-0-0)
Also Offered As: ECON 335.
Course Description: Estimating statistical regression models of economic relationships; treatment of special problems that may arise in analysis of economic data.
Prerequisite: (ECON 204) and (STAT 201 or STAT 204 or STAT 301 or STAT 307 or STAT 311 or STAT 315) and (MATH 141 or MATH 155 or MATH 160).
Registration Information: Credit not allowed for both ECON 335 and AREC 335. Sections may be offered: Online.
Terms Offered: Fall, Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

AREC 340 Introduction-Economics of Natural Resources Credits: 3 (3-0-0)
Also Offered As: ECON 340.
Course Description: Concepts, theories, institutions; analytical methods for economic evaluation of alternative resource use patterns and land use plans.
Prerequisite: AREC 202 or ECON 202.
Registration Information: Sections may be offered: Online. Credit not allowed for both AREC 340 and ECON 340.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term Offered</th>
<th>Grade Mode</th>
<th>Special Course Fee</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>AREC 305</td>
<td>Environmental Economics</td>
<td>3</td>
<td>Fall</td>
<td>Traditional</td>
<td>No.</td>
<td>(AREC 202 or ECON 202).</td>
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<tr>
<td>AREC 342</td>
<td>Water Law, Policy, and Institutions</td>
<td>3</td>
<td>Fall</td>
<td>Traditional</td>
<td>No.</td>
<td>(AREC 305) and (AREC 310 or AREC 311).</td>
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<tr>
<td>AREC 346</td>
<td>Economics of Outdoor Recreation</td>
<td>3</td>
<td>Fall</td>
<td>S/U within Student Option, Trad within Student Option</td>
<td>No.</td>
<td>(AREC 305) and (MATH 200 or MATH 300).</td>
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<tr>
<td>AREC 375</td>
<td>Agricultural Law</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Traditional</td>
<td>No.</td>
<td>(AREC 340 or ECON 340) and (AREC 305) and (AREC 310 or AREC 311).</td>
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<tr>
<td>AREC 381</td>
<td>Introduction to Environmental Economics</td>
<td>3</td>
<td>Fall</td>
<td>S/U within Student Option, Trad within Student Option</td>
<td>No.</td>
<td>(AREC 202 or ECON 202) and (MATH 118 or MATH 124 or MATH 125 or MATH 126 or MATH 141 or MATH 156 or MATH 160).</td>
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<tr>
<td>AREC 405</td>
<td>Agricultural Production Management</td>
<td>3</td>
<td>Spring</td>
<td>Traditional</td>
<td>No.</td>
<td>AREC 305.</td>
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<tr>
<td>AREC 408</td>
<td>Agricultural Finance</td>
<td>3</td>
<td>Spring</td>
<td>Traditional</td>
<td>No.</td>
<td>Are not allow for both AREC 442 and ECON 442.</td>
</tr>
<tr>
<td>AREC 412</td>
<td>Agricultural Commodities Marketing</td>
<td>3</td>
<td>Spring</td>
<td>Traditional</td>
<td>No.</td>
<td>AREC 305.</td>
</tr>
<tr>
<td>AREC 428</td>
<td>Agricultural Business Management</td>
<td>3</td>
<td>Fall, Spring</td>
<td>S/U within Student Option, Trad within Student Option</td>
<td>No.</td>
<td>Are not allow for both AREC 442 and ECON 442.</td>
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<tr>
<td>AREC 440</td>
<td>Advanced Environmental and Resource Economics</td>
<td>3</td>
<td>Fall</td>
<td>Traditional</td>
<td>No.</td>
<td>(AREC 340 or ECON 340) and (AREC 310 or AREC 311).</td>
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<tr>
<td>AREC 442</td>
<td>Water Resource Economics</td>
<td>3</td>
<td>Spring</td>
<td>Traditional</td>
<td>No.</td>
<td>AREC 305.</td>
</tr>
</tbody>
</table>

**Course Description:**
- AREC 305: Economic theories and analytic frameworks are developed and applied to contemporary problems of the use and protection of the natural environment.
- AREC 342: Legal water issues within the context of historical, social and economic development with emphasis on the southwestern United States.
- AREC 346: Benefit cost framework in public planning for outdoor recreation, pricing problems, projecting demand, and regional economic development.
- AREC 375: Laws, regulations, case decisions affecting ranching and farming in the Rocky Mountain area.
- AREC 381: Design and measurement of economic values and environmental policy; how the theory can be used to construct solutions to real-world problems.
- AREC 405: Economic principles of agricultural production decisions with linear programming analysis of production choices and farm planning.
- AREC 408: Monetary affairs of agribusiness and agricultural production emphasizing credit institutions and procurement, investment, and management.
- AREC 412: Agricultural marketing and agribusiness principles applied to current marketing problems relating to livestock and field and horticultural crops.
- AREC 428: Economic analysis, organization, and management practices of agriculture and food industries studied through simulation, case study, computer labs.
- AREC 440: Microeconomic techniques to rigorously explore economic decision-making and policy as they apply to environmental and natural resource problems.
- AREC 442: An in-depth exploration of the role of economics in water resource planning.
AREC 444  Economics of Energy Resources  Credits: 3 (3-0-0)  
Also Offered As: ECON 444.  
Course Description: Supply, consumption trends, and projected demand for alternative energy resources in domestic and world perspective; economics of public energy policies.  
Prerequisite: ECON 306.  
Registration Information: Junior standing. Written consent of instructor. Credit allowed for only one of the following: AREC 444, ECON 344, or ECON 444.  
Term Offered: Spring.  
Grade Mode: Traditional.  
Special Course Fee: No.  

AREC 454  Real Estate Appraisal  Credits: 3 (3-0-0)  
Also Offered As: REL 454.  
Course Description: Theoretical principles that underlie real estate appraisal methods. Procedures and practices used in real estate appraisal.  
Prerequisite: (AREC 202 or ECON 202) and (AREC 305 or REL 360).  
Registration Information: Sections may be offered: Online. Credit allowed for only one of the following: AREC 453, AREC 454, REL 453, or REL 454.  
Term Offered: Spring.  
Grade Mode: Traditional.  
Special Course Fee: No.  

AREC 460  Ag- and Resource-Based Economic Development  Credits: 3 (3-0-0)  
Course Description: Indicators, tools and approaches for agriculture- and natural resource-based economic development in resource dependent countries and communities.  
Prerequisite: ECON 306.  
Term Offered: Spring.  
Grade Mode: Traditional.  
Special Course Fee: No.  

AREC 478  Agricultural Policy  Credits: 3 (3-0-0)  
Course Description: Formulation and administration of public policies affecting agricultural industries and rural areas in the United States.  
Prerequisite: AREC 202 or ECON 202 or AREC 240 or ECON 240.  
Registration Information: Sections may be offered: Online.  
Terms Offered: Fall, Spring.  
Grade Modes: S/U within Student Option, Trad within Student Option.  
Special Course Fee: No.  

AREC 482A  Study Abroad-Environmental Economics in Italy  Credits: 3 (0-0-3)  
Course Description: The historical and current economics of agriculture and natural resources in Florence, Tuscany and Italy. Focus on (1) Italian culture in general; (2) the economic and political history of Florence in particular; and (3) the production and regional economic importance of agricultural products of and natural resources used in central Italy.  
Prerequisite: None.  
Registration Information: Sophomore standing. This is a partial semester course. Required field trips.  
Term Offered: Spring (odd years).  
Grade Mode: Traditional.  
Special Course Fee: No.  

AREC 482B  Study Abroad-Italian Culture: Economics of Food and the Environment  Credits: 3 (0-0-3)  
Course Description: The historical and current economics of agriculture and natural resources in Florence, Tuscany and Italy. Focus on (1) Italian culture in general; (2) the economic and political history of Florence in particular; and (3) the production and regional economic importance of agricultural products of and natural resources used in central Italy.  
Prerequisite: None.  
Registration Information: Sophomore standing. This is a partial semester course. Required field trips.  
Term Offered: Spring (odd years).  
Grade Mode: Traditional.  
Special Course Fee: No.  

AREC 484  Supervised College Teaching  Credits: Var[1-5] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: Maximum of 10 credits allowed in course. A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.  
Terms Offered: Fall, Spring.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 487  Internship  Credits: Var[1-6] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: May be taken for a maximum of 6 credits. Sections may be offered: Online.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 495  Independent Study  Credits: Var[1-6] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: May be taken for a maximum of 6 credits. Sections may be offered: Online.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 496  Group Study  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 484  Supervised College Teaching  Credits: Var[1-5] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: Maximum of 10 credits allowed in course. A maximum of 10 combined credits for all 384 and 484 courses are counted towards graduation requirements.  
Terms Offered: Fall, Spring.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 487  Internship  Credits: Var[1-6] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: May be taken for a maximum of 6 credits. Sections may be offered: Online.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 495  Independent Study  Credits: Var[1-6] (0-0-0)  
Course Description:  
Prerequisite: None.  
Registration Information: May be taken for a maximum of 6 credits. Sections may be offered: Online.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 496  Group Study  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  

AREC 505  Agricultural Production Economics  Credits: 3 (3-0-0)  
Course Description: Empirical applications of production economic theory for use of inputs and allocation of resources in agricultural, natural resource sectors.  
Prerequisite: (MATH 141) and (AREC 405 or ECON 306).  
Term Offered: Fall.  
Grade Modes: S/U within Student Option, Trad within Student Option.  
Special Course Fee: No.
Agriculture + Resrce Econ-AREC (AREC)

**AREC 506** Applied Microeconomic Theory  Credits: 3 (3-0-0)
Also Offered As: ECON 506.
Course Description: Introduction to mathematical models in modern microeconomics, including choices and demand, production and supply, and market structures and failures.
Prerequisite: ECON 306.
Registration Information: Credit not allowed for both AREC 506 and ECON 506.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 507** Applied Welfare and Policy Analysis  Credits: 3 (3-0-0)
Course Description: How policies are crafted to effectively address social issues, especially for agriculture and the environment, and how they impact society.
Prerequisite: ECON 306.  
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 508** Financial Management in Agriculture  Credits: 2 (2-0-0)
Course Description: Systematic approach to understanding and applying financial management in farm businesses.
Prerequisite: (AREC 408 or FIN 305) and (ECON 306).
Term Offered: Fall (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 510** Agricultural Product Marketing  Credits: 3 (3-0-0)
Course Description: Marketing techniques, industrial organization/competition for agricultural products in US domestic, international trade, and developing country markets.
Prerequisite: (AREC 310) and (AREC 335 or ECON 335).
Term Offered: Fall.  
Grade Modes: S/U within Student Option, Trad within Student Option.  
Special Course Fee: No.

**AREC 520** Intellectual Property in Food and Agriculture  Credits: 2 (2-0-0)
Course Description: Explores the critical role that intellectual property plays in commercial activities within the knowledge economy. Emphasis on strategic management of technology through patents and other control mechanisms, thereby allowing startups to survive and thrive in the knowledge economy with special attention to property developed in the agricultural and food systems.
Prerequisite: AREC 518 and BUS 660.
Restriction: Must be a Graduate.
Registration Information: Graduate standing. Sections may be offered: Online.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 528** Applied Agribusiness Decision Tools  Credits: 2 (2-0-0)
Course Description: Applications of quantitative tools for managerial decision-making in the context of an agribusiness.
Prerequisite: (AREC 305 or AREC 408 or FIN 305) and (ECON 306).
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 530** Agricultural Price Analysis  Credits: 3 (3-0-0)
Course Description: Agricultural commodity prices related to neoclassical economics; current literature emphasizing management problems.
Prerequisite: None.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 535** Applied Econometrics  Credits: 3 (3-0-0)
Also Offered As: ECON 535.
Course Description: Econometric techniques applied to testing and quantification of theoretical economic relationships drawn from both microeconomics, macroeconomics.
Prerequisite: (AREC 335 or ECON 335) and (ECON 304 or ECON 306).
Registration Information: Credit not allowed for both AREC 535 and ECON 535.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 540** Environmental and Natural Resource Economics  Credits: 3 (3-0-0)
Also Offered As: ECON 540.
Course Description: Theory, methods, and policy in environmental and natural resource economics.
Prerequisite: AREC 506 or ECON 506.
Registration Information: Credit not allowed for both AREC 540 and ECON 540.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 541** Environmental Economics  Credits: 3 (3-0-0)
Also Offered As: ECON 541.
Course Description: Economics of environmental policy; partial equilibrium and general equilibrium model; pollution; natural environments; population and economic growth.
Prerequisite: ECON 306.
Registration Information: Credit not allowed for both AREC 541 and ECON 541.
Term Offered: Spring.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

**AREC 542** Applied Advanced Water Resource Economics  Credits: 3 (3-0-0)
Course Description: Theory and application of economics in water resource planning.
Prerequisite: (ECON 306 and AREC 342 and STAT 301) and (MATH 141 or MATH 155 or MATH 160).
Registration Information: Credit not allowed for both AREC 542 and AREC 442.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

**AREC 547** Public Lands Planning and Management  Credits: 3 (3-0-0)
Course Description: Principles and techniques used by federal land management agencies including Forest Service, Park Service, Fish and Wildlife Service, and BLM.
Prerequisite: AREC 202 or ECON 202.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Course Description</th>
<th>Prerequisite</th>
<th>Term Offered</th>
<th>Grade Mode</th>
<th>Special Course Fee</th>
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<tbody>
<tr>
<td>AREC 563</td>
<td>Regional Economics-Theory, Methods, and Issues</td>
<td>3 (3-0-0)</td>
<td>Tools and methods of regional economics, including supply, demand, and externality analysis. Applications to current urban and regional policy issues.</td>
<td>ECON 306 and ECON 501, may be taken concurrently.</td>
<td>Fall</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 566</td>
<td>Contemporary Issues in Developing Countries</td>
<td>3 (3-0-0)</td>
<td>Social, economic, and technological factors in developing countries.</td>
<td>None.</td>
<td>Spring (odd years)</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 570</td>
<td>Methodology of Economic Research</td>
<td>3 (3-0-0)</td>
<td>Philosophical foundations of science and research. Concepts and skills for planning, performing, reporting, and evaluating economic research.</td>
<td>ECON 304 and ECON 306.</td>
<td>Fall (even years)</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 572</td>
<td>Social Benefit Cost Analysis</td>
<td>3 (3-0-0)</td>
<td>Theory, application of concepts relating to social benefit cost analysis of public projects, policies intended to promote social welfare, economic growth.</td>
<td>ECON 306.</td>
<td>Fall</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 605</td>
<td>Agricultural Production and Cost Analysis</td>
<td>2 (2-0-0)</td>
<td>Empirical application and analysis of production and cost issues in the agricultural and natural resource sectors.</td>
<td>(AREC 506) and (AREC 535 or ECON 535).</td>
<td>Fall</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 606</td>
<td>Microeconomic Analysis I</td>
<td>3 (3-0-0)</td>
<td>Advanced price/allocation theory: consumer/producer decisions; uncertainty; market structure; partial/general equilibrium; efficiency/welfare.</td>
<td>ECON 306 and ECON 501.</td>
<td>Spring</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 610</td>
<td>Agricultural Marketing and Demand Analysis</td>
<td>2 (2-0-0)</td>
<td>Empirical application and analysis of agricultural marketing and demand issues in the agricultural and natural resource sectors.</td>
<td>(AREC 506) and (AREC 535 or ECON 535).</td>
<td>Spring</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 615</td>
<td>Optimization Methods for Applied Economics</td>
<td>3 (3-0-0)</td>
<td>Theory and practice of optimization techniques used in economic applications with emphasis on linear and nonlinear programming.</td>
<td>ECON 506.</td>
<td>Fall</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 635</td>
<td>Econometric Theory I</td>
<td>3 (3-0-0)</td>
<td>Theory of mathematical statistics and classical linear regression model in context of economic application.</td>
<td>(AREC 535 or ECON 535) and (ECON 501, may be taken concurrently).</td>
<td>Fall</td>
<td>Traditional</td>
<td>No</td>
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<tr>
<td>AREC 647</td>
<td>Land Use Economics and Spatial Modeling</td>
<td>3 (3-0-0)</td>
<td>Use of spatial data in economic analysis of land use focusing on development patterns, land conservation, spatial externalities and agricultural land.</td>
<td>(AREC 506 or ECON 506) and (AREC 535 or ECON 535).</td>
<td>Fall (even years)</td>
<td>Traditional</td>
<td>No</td>
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</tbody>
</table>
AEC 660 Development of Rural Resource-Based Economies Credits: 3 (3-0-0)
Course Description: Economic literature-based exploration of human welfare measures and implications of approaches to agriculture and resource-based economic development.
Prerequisite: AEC 506.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AEC 678 Agricultural and Resource Policy Credits: 3 (3-0-0)
Course Description: Evaluate and analyze economic theory, applications and public incentives related to government policies for agriculture and natural resources.
Prerequisite: ECON 306 and MATH 141.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall.
Grade Modes: S/U within Student Option, Trad within Student Option.
Special Course Fee: No.

AEC 695 Independent Study Credits: Var[1-6] (0-0-0)
Course Description: Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

AEC 699 Thesis Credits: Var[1-18] (0-0-0)
Course Description: Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

AEC 705 Advanced Production and Technological Change Credits: 2 (2-0-0)
Course Description: Production theory is applied to real-world issues including risk, innovation, and environment, through lectures and readings of current literature.
Prerequisite: (AREC 605) and (AREC 706, may be taken concurrently or ECON 706, may be taken concurrently) and (AREC 735 or ECON 735).
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

AEC 706 Microeconomic Analysis II Credits: 3 (3-0-0)
Also Offered As: ECON 706.
Course Description: Advanced topics in microtheory: game theory; market imperfections; adverse selection; principal-agent problems; social choice theory; incentives, etc.
Prerequisite: ECON 606.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both AREC 706 and ECON 706.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

AEC 710 Advanced Agricultural Marketing Issues Credits: 2 (2-0-0)
Course Description: Theoretical and modeling issues of consumer demand, market structure, product differentiation and market behavior.
Prerequisite: (AREC 610) and (AREC 706, may be taken concurrently or ECON 706, may be taken concurrently) and (AREC 735 or ECON 735).
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

AEC 735 Econometric Theory II Credits: 2 (2-0-0)
Also Offered As: ECON 735.
Course Description: Econometrics models and estimators in econometrics, from fully parametric to semiparametric and nonparametric approaches.
Prerequisite: AREC 635 or ECON 635.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both AREC 735 and ECON 735. This is a partial-semester course.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AEC 736A Advanced Econometric Methods: Discrete Choice Models Credit: 1 (1-0-0)
Also Offered As: ECON 736A.
Course Description: Econometrics analysis of: Discrete Choice Models.
Prerequisite: AREC 735, may be taken concurrently or ECON 735, may be taken concurrently.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both AREC 736A-C and ECON 736A-C. This is a partial-semester course.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AEC 736B Advanced Econometric Methods: Panel Data Models Credit: 1 (1-0-0)
Also Offered As: ECON 736B.
Course Description: Econometrics analysis of: Panel Data Models.
Prerequisite: AREC 735, may be taken concurrently or ECON 735, may be taken concurrently.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both AREC 736A-C and ECON 736A-C. This is a partial-semester course.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

AEC 736C Advanced Econometric Methods: Time Series Models Credit: 1 (1-0-0)
Also Offered As: ECON 736C.
Course Description: Econometrics analysis of: Time Series Models.
Prerequisite: AREC 735, may be taken concurrently or ECON 735, may be taken concurrently.
Restriction: Must be a: Graduate, Professional.
Registration Information: Credit not allowed for both AREC 736A-C and ECON 736A-C. This is a partial-semester course.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.
AREC 740  Advanced Natural Resource Economics  Credits: 3 (3-0-0)  
Also Offered As: ECON 740.  
Course Description: Advanced theory, methods, and literature in natural resource economics, including dynamic programming and optimal control.  
Prerequisite: AREC 706 or ECON 706.  
Restriction: Must be a: Graduate, Professional.  
Registration Information: Credit not allowed for both AREC 740 and ECON 740.  
Term Offered: Fall.  
Grade Mode: Traditional.  
Special Course Fee: No.  
AREC 741  Advanced Environmental Economics  Credits: 3 (3-0-0)  
Also Offered As: ECON 741.  
Course Description: Advanced theory, methods, and literature in environmental economics.  
Prerequisite: AREC 706 or ECON 706.  
Restriction: Must be a: Graduate, Professional.  
Term Offered: Spring.  
Grade Mode: Traditional.  
Special Course Fee: No.  
AREC 770  Advanced Methods in Applied Economics  Credits: 3 (3-0-0)  
Course Description: Advanced research methods in applied economics: lab and field experiments, non-market valuation and discrete choice experiments.  
Prerequisite: (AREC 706, may be taken concurrently or ECON 706, may be taken concurrently) and (AREC 735 or ECON 735).  
Restriction: Must be a: Graduate, Professional.  
Term Offered: Fall (odd years).  
Grade Mode: Traditional.  
Special Course Fee: No.  
AREC 784  Supervised College Teaching  Credits: Var[1-3] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  
AREC 792A  Seminar: Agricultural  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  
AREC 792B  Seminar: International  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  
AREC 792C  Seminar: Resources  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  
AREC 795  Independent Study  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.  
AREC 799  Dissertation  Credits: Var[1-18] (0-0-0)  
Course Description:  
Prerequisite: None.  
Restriction: Must be a: Graduate, Professional.  
Terms Offered: Fall, Spring, Summer.  
Grade Mode: Instructor Option.  
Special Course Fee: No.