

AGRICULTURAL AND RESOURCE ECONOMICS (ARE)

ARE 5201. Microeconomics. (3 Credits)

Beginning graduate microeconomics covering consumer and producer theory, price determination, economic efficiency, and welfare analysis. View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205201>)

ARE 5203. Economics Methodology: Praxis and Practice. (3 Credits)

Philosophical foundations of economics as a science and economic research. Developing skills for planning, performing, reporting, and evaluating economic research. Critical thinking about the research process, reading about and discussing research methodology, analyzing the logic and reasoning of other economists' research articles, and developing a research project.

Enrollment Requirements: M.S. student in ARE, or ARE major with Senior standing and instructor approval.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205203>)

ARE 5205. Market Planning and Survey Research in the Food Industry. (3 Credits)

Overview of market planning in the food industry, with emphasis on survey design and implementation. Graduate students will lead teams of undergraduates as they work with clients to develop tailored market plans.

Enrollment Requirements: ARE 3333 or similar course. Not open for credit to students who have passed ARE 4205.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205205>)

ARE 5305. Sustainable Economic Development. (3 Credits)

The role of sustainable economic development of less developed economies. Microeconomic dimensions of agricultural development, food security, agricultural production and supply, foreign assistance, and government programming.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205305>)

ARE 5311. Applied Econometrics I. (3 Credits)

This course deals with the estimation and inference of statistical parameters that describe the data generating process of a society, the process that cannot be reproduced like in a pure science experimentation. In other words, the data are generated from economic systems of equations that are stochastic, dynamic, and simultaneous. An attempt is made to obtain the best, unbiased, and consistent estimates of the statistical parameters that describe the inherent economic phenomena.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205311>)

ARE 5353. Data Ethics and Equity in the Era of Misinformation. (2 Credits)

This course will introduce students to issues of ethics and equity in the contemporary practice of data science. The ability to collect, store, process, and analyze ever greater amounts of data offers great opportunities, as well as potential perils. This course will provide examine the ethical implications of data collection, usage, and distribution. Topics will include systematic approaches to assessing ethical issues; privacy and confidentiality; defining research and the responsibilities associated with conducting ethical research; implicit and structural biases in data collection and analysis.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205353>)

ARE 5438. Climate Economics. (3 Credits)

Analysis of the interactive relationship between the economy and climate change. Use of advanced principles and tools of economics to focus on the costs of changes in the severity and frequency of weather events, how these costs are influenced by markets and policies, and how costs and benefits are distributed across populations within the U.S and across the globe in the short and long terms. Examination of household, firm-level, national and international decision-making as influenced by climate change, taking into account uncertainty, diverging interests, external costs, and evaluation of models used to alternative scenarios.

Enrollment Requirements: This course and ARE 3438E may not both be taken for credit.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205438>)

ARE 5462. Environmental and Resource Economics. (3 Credits)

Natural resource use and environmental quality analysis using economic theory. Reviews of empirical research and relevant policy issues.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205462>)

ARE 5464. Benefit-Cost Analysis and Resource Management. (3 Credits)

Theoretical foundations and applications of benefit-cost analysis in project appraisal and in evaluation of public policies regarding resource management and environmental protection.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205464>)

ARE 5476. International Trade and Policy. (3 Credits)

Analysis of international trade and trade policy focusing on agricultural and food markets. Covers trade-related issues concerning economic development and growth. Focus on current challenges to the multilateral trading system and the theoretical foundation for understanding the economic importance of firms, international trade, and global capital flows. Introduction of methods and tools for counterfactual evaluation of trade policies. Statistical modeling techniques to analyze trade patterns and measure trade policy effects.

Enrollment Requirements: ARE 5201 or ECON 5201; ARE 5311 or ECON 5312 (or equivalents).

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205476>)

ARE 5480. Effective Teaching Strategies and Course Design in Applied Economics. (1-3 Credits)

Introduction to course development and strategies for effective teaching. Students will be expected to attend teaching workshops, meet weekly with the instructor and their peers to discuss teaching-related topics, and work on developing their course materials including syllabi, course learning goals, lectures, and assessments.

Enrollment Requirements: Open only to graduate students, instructor's consent is required.

May be repeated for a total of 3 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205480>)

ARE 5495. Special Topics. (1-3 Credits)

Topics and credits to be published prior to the registration period preceding the semester offerings.

May be repeated for a total of 12 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205495>)

ARE 5499. Independent Study in Agricultural and Resource Economics. (1-6 Credits)

This course provides the opportunity for graduate students to carry on independent reading or research in the field of the student's needs and interests.

May be repeated for a total of 24 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205499>)

ARE 5991. Professional Internship. (1-6 Credits)

Professional or project based work in applied economics and policy related to agribusiness management, marketing and financial analysis, food systems, environmental and resource management, sustainability, or economic development. Requires a learning agreement and student's advisor approval.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205991>)

ARE 5993. Teaching Practicum in Applied Economics. (1-6 Credits)

Teaching practicum in the field of applied economics and policy related to agribusiness management, marketing and financial analysis, food systems, environmental and resource management, sustainability, economic development, and data analysis. Requires a learning agreement and student's advisor approval.

Enrollment Requirements: Open only to graduate students.

May be repeated for a total of 6 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%205993>)

ARE 6203. Economics Methodology: Praxis and Practice. (3 Credits)

Philosophical foundations of economics as a science and economic research. Developing skills for planning, performing, reporting, and evaluating economic research. Critical thinking about the research process, reading about and discussing research methodology, analyzing the logic and reasoning of other economists' research articles, and developing a research project.

Enrollment Requirements: Instructor consent; open to Ph.D. students in ARE (or Ph.D. students in Economics with Permission). Recommended preparation: One year of Ph.D. coursework in ARE (or Economics).

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206203>)

ARE 6305. Applied Development Economics. (3 Credits)

Overview of the current applied literature on the microeconomics of development in poor countries, as well as examples from the US. Topics include the role of land policies, agriculture, human capital, health, education, the internal structure of households (neoclassical and bargaining) and the functioning of markets.

Enrollment Requirements: ARE 5311 or ECON 5311 or equivalent.

Recommended preparation: ARE 5201 or ECON 5201 or equivalent.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206305>)

ARE 6311. Applied Econometrics I. (3 Credits)

Expose students to techniques in applied economics research. Students will learn models - derivations, assumptions, and issues. The models will be practiced utilizing empirical data and interpreting results in light of economic and econometric theory.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206311>)

ARE 6313. Applied Econometrics II. (3 Credits)

An introduction to econometric methods used in contemporary applied economic data analysis. Emphasis on learning how to operationalize different estimation techniques in standard statistical software.

Enrollment Requirements: ARE 5311.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206313>)

ARE 6464. Experimental Methods for Program Evaluation. (3 Credits)

Theory and practice of field-based program experiments, often referred to as randomized controlled trials (RCTs). All aspects of experimental program evaluation, including the design of evaluation strategy and working with survey and program staff. Examples from both developing country contexts and Western country program evaluation.

Enrollment Requirements: A graduate level introduction to statistics or econometrics class or equivalent. Recommended preparation: A graduate level macroeconomic theory course.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206464>)

ARE 6466. Environmental Economics. (3 Credits)

(Also offered as ECON 6466.) Economic analysis of environmental problems and corrective policy instruments. Theory of externalities and public goods, role of uncertainty and imperfect information in policy design, benefit-cost analysis, and non-market valuation. Applications to environmental problems (such as air and water pollution, hazardous waste, and occupational health and safety).

Enrollment Requirements: ARE 5201 or ECON 5201.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206466>)

ARE 6468. Economics of Natural Resources. (3 Credits)

Economic concepts and issues related to the allocation of stock resources through time, the use and protection of flow resources, and the role of natural resources in economic growth.

Enrollment Requirements: ARE 5201 or ECON 5201 or equivalent.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206468>)

ARE 6470. Applied Research in Environmental Economics. (3 Credits)

Develops a broad perspective on the peer-reviewed literature concerning the frontier areas of contemporary environmental economics, with an emphasis on incentive and market-based approaches to ecosystem services, valuation of environmental quality and assets, interface between experimental and environmental economics, including such topics as land use change, conservation, pollution control, water resource services, forest ecosystem management. Students will develop critical thinking skills evaluating published studies and identifying gaps in methodology and knowledge for future research.

Enrollment Requirements: ARE 5201 or ECON 5201; ARE 5311 or ECON 5312. Recommended preparation: ECON 6466 or ARE 6466 or 6468 or 5462.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206470>)

ARE 6474. Empirical Industrial Organization. (3 Credits)

Empirical Industrial Organization models that use simultaneous equations, discrete choice, and/or nonlinear econometric methods to analyze conduct and performance of brands and firms in noncompetitive industries. Includes static and dynamic modeling of pricing and advertising in differentiated product oligopolies. Antitrust policy applications in the U.S. and E.U.

Enrollment Requirements: ARE 5201, ECON 5201, or equivalent. Recommended preparation: ECON 6201 or equivalent; ARE 6311, ECON 6310, or equivalent.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206474>)

ARE 6495. Graduate Research Seminar. (1 Credit)

Participation in research seminars presented by invited scholars and departmental faculty as well as active presentation of students' own research to colleagues and faculty.

May be repeated for a total of 12 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206495>)

ARE 6695. Special Topics. (1-3 Credits)

May be repeated to a maximum of 12 credits with a change of topic.

Topics and credits to be published prior to the registration period preceding the semester offerings.

May be repeated for a total of 12 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%206695>)