

# AGRICULTURAL AND RESOURCE ECONOMICS (ARE)

## **ARE 1110E. Population, Food, and the Environment. (3 Credits)**

The role of agriculture in the growth and development of societies throughout the world. Economic, social, and environmental problems of food production and resource needs in developing and advanced societies. CA 2.

**Skill Codes:** Environmental Literacy

**Content Areas:** Social Science

**Topics of Inquiry:** Environmental Literacy, Indiv Values Soc Institutions  
View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%201110E>)

## **ARE 1150. Principles of Applied and Resource Economics. (3 Credits)**

An introduction to microeconomic analysis with applications to food, nutrition, health, natural resources, and the environment. Topics include consumer and firm behavior, supply, demand, markets, and economic policy. CA 2.

Not open for credit to students who have passed ECON 1201.

**Content Areas:** Social Science

**Topics of Inquiry:** Indiv Values Soc Institutions

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## **ARE 2150. Intermediate Applied and Resource Economics. (3 Credits)**

Applications of intermediate level microeconomic theory to problems and policy issues in agriculture, natural resources, and the environment. Topics include supply, demand, market equilibrium, consumer and producer behavior, perfect competition, and welfare economics. Emphasis will be placed on using the theory in applied and computational exercises.

ARE 1150 or ECON 1200 or ECON 1201. May not be taken out of sequence after passing ARE 3223.

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## **ARE 2155. Imperfect Competition and Behavioral Economics. (3 Credits)**

Extension of intermediate microeconomic theory to include noncompetitive markets and psychology to consumer behavior. Topics include monopolies and oligopolies (and their welfare implications); game theory (including adverse selection and moral hazard); and behavioral economics (such as time inconsistency, loss aversion, and pro-social preferences). Emphasis will be placed on real-world applications of theory in agriculture, health, natural resources, and the environment.

ARE 2150 or ECON 2201 or 2211Q.

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## **ARE 2210. Essentials of Accounting and Business. (3 Credits)**

An analysis of basic business principles, fundamentals and concepts for agribusiness entrepreneurs. Taught with SARE 460.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202210>)

## **ARE 2215. Business Management. (3 Credits)**

Analysis of marketing, management, and financial decision-making tools in agribusiness. Formerly offered as ARE 3215.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202215>)

## **ARE 2235. Marine Economics and Policy. (3 Credits)**

Fundamental theory, methods, and policy implications of environmental and resource economics, with an emphasis on coastal and marine environments. Topics include pollution policy, fisheries, water quality and allocation, international trade, wildlife and biodiversity, land use, and economic valuation. Designed for students with diverse departmental affiliations. CA 2.

Recommended preparation: ARE 1150 or ECON 1200 or ECON 1201.

**Content Areas:** Social Science

**Topics of Inquiry:** Indiv Values Soc Institutions

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202235>)

## **ARE 2260. Food Policy. (3 Credits)**

Analysis of food and agricultural policies in the United States and abroad. Designed for students with diverse departmental affiliations. Formerly offered as ARE 3260.

Recommended preparation: ARE 1150 or ECON 1200 or 1201; basic skills in Excel.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202260>)

## **ARE 2261W. Writing in Food Policy. (1 Credit)**

A writing intensive course on issues related to food policy, integrated with course content in ARE 2260. Formerly offered as ARE 3261W.

ARE 2260, may be taken concurrently; ENGL 1007 or 1010 or 1011 or 2011; open to Applied and Resource Economics majors, others with instructor consent.

**Skill Codes:** Writing Competency

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202261W>)

## **ARE 2434E. Environmental and Resource Policy. (3 Credits)**

Emergence of environmental policies from the local, legal, and regulatory angles. Formalization and structure of environmental policy with a focus on the hurdles, design, and implementation of policy, particularly air and water policy. Suitable for all majors.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202434E>)

## **ARE 2435W. Writing in Environmental and Resource Policy. (1 Credit)**

A writing intensive course integrated with course content in ARE 2434E. Formerly offered as ARE 3440W.

ARE 2434E, which may be taken concurrently; ENGL 1007 or 1010 or 1011 or 2011; open only to Environmental and Natural Resource Economics, Economics of Sustainable Development and Management, and Applied and Resource Economics majors, others by consent.

**Skill Codes:** Writing Competency

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202435W>)

**ARE 2464. Measuring Impact of Programs that Raise Human Well-being. (3 Credits)**

The theory and practice behind measuring impacts and costs of programs that raise human welfare through poverty alleviation, economic development, and social and environmental justice. Case studies will show how governments and organizations can best optimize programming. Examples include how to increase incomes and farm productivity, how to decrease disease and child mortality, and how to improve resilience to climate change. Topics include survey design, performance indicators, the logical framework and results matrix, sample design, impact evaluation methodologies and project appraisal. Formerly offered as ARE 3462.

Recommended preparation: ARE 1150 or ECON 1200 or 1201. Not open to students who have completed ARE 3464.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202464>)

**ARE 2525. Sustainability Policy and Management. (3 Credits)**

What factors do we need to consider for evaluating sustainability and its implementation? How do those factors depend on the topic at hand? This course is an effort to answer these two questions and to provide perspectives and tools to better evaluate whether we should or should not pursue a particular sustainability option. We will discuss a wide array of topics in sustainability, such as waste, healthcare, energy, food, climate, and the production of animal agriculture. CA 2. TOI-1. TOI-3.

**Content Areas:** Social Science

**Topics of Inquiry:** Creativity, Design, Expr, Innv, Diversity, Equity, Soc Justice

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%202525>)

**ARE 3221. Managerial Economics and Business Strategies. (3 Credits)**

The application of microeconomic analysis to decision-making techniques of businesses and management units with a particular focus on the food industry covering topics such as electing or developing products, deciding on product output and pricing, organizational design, promotional strategies, worker hiring and training, and investment and financing.

ARE 1150 or ECON 1200 or ECON 1201. Recommended preparation: MATH 1071Q or 1110Q or 1120Q or 1131Q or 1151Q; or STAT 1000Q or STAT 1100Q.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203221>)

**ARE 3222. Marketing and Consumer Behavior. (3 Credits)**

This course focuses on principles of contemporary marketing, including consumer behavior, social media, product, promotion, distribution and pricing strategies, with special emphasis on food and health.

ARE 1150 or ECON 1200 or ECON 1201.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203222>)

**ARE 3223. Business Organization and Labor Markets. (3 Credits)**

Analytical tools that economists use to evaluate the organizational and hiring decisions of firms. Emphasis on the effect of government policies and programs on how many workers are hired, how much they are paid, and how other forms of compensation are structured. Specific areas of consideration may include: minimum wages, federal income tax, payroll and self-employment taxes, unemployment insurance, immigration, health insurance, retirement account contributions, the use of contractors in place of employees (the so-called "gig economy"), legal form of organization, and business liability. Special emphasis on using original sources, including federal statistical agency data products, reports from federal oversight bodies, US Code, and IRS publications.

ARE 2150 or 3150.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203223>)

**ARE 3225. Price Analysis and Futures Trading. (3 Credits)**

Principles and applications of market price determination, with special emphasis on the use of futures markets for profit and price risk management. Includes food and energy case studies, internet applications, and a futures simulation exercise.

ARE 1150 or ECON 1200 or ECON 1201; STAT 1000Q or 1100Q or equivalent.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203225>)

**ARE 3305E. Economic Development, Environment, and Policy. (3 Credits)**

Integrating the topics of economic development and the environment. Overview of economic development and growth in developed and developing nations. Classical and modern theories of economic growth and measures of economic inequality. Population growth, sustainable economic development, rural-urban interactions, agricultural transformation, and impacts on the environment. The role of education and health, policies for economic development, and climate adaptation.

ARE 1150 or ECON 1201 or ECON 1200.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203305E>)

**ARE 3333. Computational Analysis in Applied Economics. (3 Credits)**

Learn fundamental concepts of statistics and economics through analysis of economic data using computer spreadsheets.

STAT 1000Q or STAT 1100Q, or similar; laptop computer in class.

Recommended preparation: ECON 1200 or ECON 1201 or ARE 1150.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203333>)

**ARE 3436. The Economics of Integrated Coastal Management. (3 Credits)**

Explores the theory and practice of integrated coastal management (ICM); introduces major concepts, processes, tools and methods of ICM; and analyzes United States and international experiences with ICM.

Recommended Preparation: ARE 1150 or ECON 1200 or 1201.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203436>)

**ARE 3437E. Marine Fisheries Economics and Policy. (3 Credits)**

Explores the various natural, human and management components of the fishery system and presents the application of economic and policy analysis for the optimal allocation of resources to a fishery.

Recommended Preparation: ARE 1150 or ECON 1200 or 1201.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203437E>)

**ARE 3438E. Climate Economics. (3 Credits)**

Analysis of the interactive relationship between the economy and climate change. Use of 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.

ARE 1150 or ECON 1201 or ECON 1200.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%203438E>)

**ARE 4205. 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. Student groups will work with clients to develop tailored market plans.

ARE 1150 and 3333.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204205>)

**ARE 4217. Business Finance and Investment Management. (3 Credits)**

Theory and practice of business finance and investment management, including sources of funding, the capital structure of corporations, the actions that managers take to increase the value of the firm, and the tools and analysis used to allocate financial resources. Emphasis on investment decision-making, corporate risk management, capital flow management, and mergers and acquisitions. Use of real-world applications to provide students with a solid background in the economic theory of business finance and investment management in food and resource industries.

ARE 1150 or ECON 1200 or 1201; open to juniors or higher.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204217>)

**ARE 4279. International Commodity Trade. (3 Credits)**

The basic principles of international commodity trade and market institutions. Applications to current problems of international commodity trade and policy.

Recommended preparation: ARE 1150 or ECON 1200 or 1201.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204279>)

**ARE 4305. 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.

ARE 1150 or ECON 1200 or ECON 1201; MATH 1071Q or 1110Q or 1120Q or 1126Q or 1131Q. Credit may not be received for both ARE 4305 and 5305.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204305>)

**ARE 4438E. Valuing the Environment. (3 Credits)**

Conceptual and practical understanding of main methods used to evaluate economic benefits of environmental protection and damages from degradation. Methods include: change in productivity, hedonic pricing, travel cost method, contingent valuation, defensive expenditures, replacement costs, and cost-of-illness. Topics covered include: recreation, soil-erosion, energy, forestry, hazardous waste, air pollution, deforestation, wetlands, wildlife, biodiversity, noise, visibility, water, and water pollution.

ARE 1150 or ECON 1200 or ECON 1201.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204438E>)

**ARE 4444. Economics of Energy, Climate, and the Environment. (3 Credits)**

Economics of energy issues with special reference to local and regional environmental quality, global climate change, and energy markets.

Environmental and economic implications of developing alternative sources of energy. Regulatory policies in relation to transportation, industry, commercial and residential energy use.

ARE 1150 or ECON 1200 or ECON 1201; open to juniors or higher.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204444>)

**ARE 4462E. Environmental and Resource Economics. (3 Credits)**

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

ARE 1150 or ECON 1200 or ECON 1201; MATH 1071Q or 1110 or 1120 or 1126 or 1131Q; open to juniors or higher. Credit may not be received for both ARE 4462 and 5462.

**Skill Codes:** Environmental Literacy

**Topics of Inquiry:** Environmental Literacy

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204462E>)

**ARE 4476. 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. Taught concurrently with ARE 5476.

ARE 1150 or ECON 1200 or 1201. Recommended preparation:

MATH 1071Q or 1110Q or 1120Q or 1131Q or 1151Q; or STAT 1000Q or 1100Q. Not open for credit to students who have passed ARE 5476.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204476>)

**ARE 4897. Honors Thesis. (3 Credits)**

ENGL 1007 or 1010 or 1011 or 2011; open to seniors; open only with consent of instructor to students in the Honors Program.

**Grading Basis:** Honors Credit

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204897>)

**ARE 4900. Farm Credit Fellows Seminar. (1 Credit)**

Course offered with Farm Credit East. Students learn agribusiness concepts from the lender's perspective. Students taking this course will be assigned a grade of S (satisfactory) or U (unsatisfactory).

One or more of the following courses: ARE 2150, 2210, 2215; ACCT 2001; BADM 3730; or FNCE 3101.

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204900>)

**ARE 4991. Professional Internship. (1-6 Credits)**

Provides students with a meaningful experience in a formalized applied resource economics program under supervised conditions. Each student taking this course must submit a formal written report for evaluation and meet all other course requirements as specified by the instructor. Requires Independent Study Authorization with consent of department head and advisor.

Open to junior or senior Applied and Resource Economics majors with Independent Study Authorization.

May be repeated for a total of 6 credits

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204991>)

**ARE 4993. Foreign Study. (1-15 Credits)**

Special topics taken in a foreign study program. Consent of department head required, normally to be granted prior to the student's departure.

May be repeated for credit

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204993>)

**ARE 4994. Seminar. (1-6 Credits)**

Participation in staff conferences and discussions, reviews of important books, and reports on recent developments in economic theory and research. Credits and hours by arrangement.

May be repeated for credit

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204994>)

**ARE 4995. Special Topics. (1-6 Credits)**

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

May be repeated for credit

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204995>)

**ARE 4999. Independent Study. (1-6 Credits)**

Designed primarily for Resource Economics majors. Open to students with Independent Study Authorization.

May be repeated for credit

View Classes (<https://catalog.uconn.edu/course-search/?details&code=ARE%204999>)