AGRICULTURAL ECONOMICS (AGEC)

AGEC 101 The Business of Agriculture  
1 credit  
This course is intended for first-year students majoring in Agribusiness or Agricultural Economics. An examination of current issues in agriculture and how economic and business principles can be used to analyze issues, and career opportunities in the discipline.

AGEC 204 (s) Special Topics  
Credit arranged

AGEC 278 Farm and Agribusiness Management  
4 credits  
Decision making and profit maximization using economic principles, records, enterprise analysis, and comparison of alternative farming practices. Three lectures and one 2-hour lab per week. Recommended Preparation: ECON 202.

AGEC 289 Agricultural Markets and Prices  
3 credits  
Economics of agricultural markets and pricing institutions; analysis of supply, demand, elasticity, futures markets; institutional arrangements in food marketing. Recommended Preparation: ECON 202.

AGEC 299 (s) Directed Study  
Credit arranged

AGEC 301 Managerial Economics: Production  
3 credits  
Microeconomic principles applied to agricultural production and the management of agribusiness firms with an introduction to spreadsheet based statistical, mathematical and optimization techniques for analyzing and solving real world management problems.  
Prereq: ECON 202 or ECON 272; and MATH 143 with a grade of ‘C’ or better

AGEC 302 Managerial Economics: Consumption & Markets  
3 credits  
Microeconomic principles applied to agricultural markets and consumer demand, with an introduction to spreadsheet based statistical and forecasting tools for analyzing associated real world pricing and consumer demand concerns facing managers of agribusiness firms.  
Prereq: ECON 202 or ECON 272; and MATH 143

AGEC 303 Principles of Agricultural Economics  
1 credit  
Review, discussion and application of basic economic, agribusiness, and natural resource principles as applied to the agricultural economics profession. The principles are reviewed in a game show format. Students will have an opportunity to attend the American Agricultural Economics Association annual meetings and test their knowledge of these principles with students from other universities. Recommended preparation: AGEC 301 and AGEC 302. (Spring only)  
Prereq: AGEC 101 and AGEC 278; and ECON 272 or ECON 201 and ECON 202

AGEC 333 Introduction to Sales  
3 credits  
Introduction to the economic and consumer behavior theory of the sales industry. Fundamentals of professional business-to-business selling, business-to-consumer selling, sales ethics, and career assessment. One evening practicum required and a day-long job shadowing required. (Spring only)

AGEC 356 Agricultural and Rural Policy  
3 credits  
Goals, methods, results of economic programs and policies in agriculture, including role of governmental and farm organizations. Recommended Preparation: ECON 201 and 202.

AGEC 385 Environmental Economics  
3 credits  
Theory of externalities and public goods, and application of economic principles to environmental issues.  
Prereq: ECON 202 or ECON 272 or Permission

AGEC 398 (s) Internship  
1-6 credits, max 6  
Graded P/F.  
Prereq: Permission

AGEC 404 (s) Special Topics  
Credit arranged

AGEC 405 (s) Professional Development  
Credit arranged

AGEC 410 Experiencing the Idaho Public Policy Making Process  
1 credit  
Assessment of policy topics currently facing the agricultural industry. Students will travel to Boise while the legislature is in session to become familiar with the policy making process and to discuss current policy issues with industry and legislative officials. Three, three hour evening classes. (Spring Only)  
Prereq: AGEC 356 or permission

AGEC 414 Financial Analysis of Agricultural Firms  
3 credits  
Applying cost analysis and three financial statements analysis to the management of an agricultural business. Evaluating relative performance of agricultural firms by using financial ratios, ride-on investment evaluation (by employing Net Present Value and Internal Rate of Return), leasing vs. buying, and financial modelling (proforma statement) for agricultural firms. Examination of cost and accrual based income statement for tax and management decisions. Create a cash flow statement for agricultural firms based on the income and balance sheet statements. Three hours of lec per week. (Fall Only)  
Prereq: ACCT 201 and AGEC 278, or permission

AGEC 433 Advanced Sales  
3 credits  
Building on principles of professional sales and sales management, students will learn additional processes, procedures and practices of sales professionals. Students will apply the old and new concepts when selling a product to be determined to actual customers. Semester-long project requires working with sales professionals or in professional sales capacity.  
Prereq: AGEC 333
Prereq: BLAW 265.

AGEC 451 Applied Environmental and Natural Resource Economics
3 credits
Cross-listed with ECON 451
Economic analysis of current issues pertaining to environmental and natural resources. Economic tools will be applied in the contexts of climate change, valuation of the environment, sustainable development, energy, water, environmental risk, etc. Specific cases used to describe economic theories and tools used by experts working in the field.
Prereq: AGEC 301 or AGEC 302, or ECON 351 or ECON 352, or by Permission.

AGEC 452 Water Economics and Policy Analysis
Cross-listed with WR 552. 3 credits
This course will provide students with an in-depth look at the role of economics in water resource planning. Topics will include an introduction to water law, common concepts in hydrology, and the tools necessary to evaluate irrigation and other water use decisions. The course will focus on economic theory and a practical background of water resource management, as such, significant time will be spent developing the tools most frequently utilized by water resource economists. This includes Linear Programming, Cost/Benefit Analysis, Residual Imputation methods, Regression Analysis, Input-Output Modeling, Survey Design and Implementation, and Cost of Avoidance Techniques. Additional work required for graduate credit. Cooperative: open to WSU degree-seeking students. Prereq: AGEC 301 or AGEC 302, or ECON 351 or ECON 352, or by Permission.

AGEC 468 Risk Management: Commodity Merchandising
1 credit, max 6
Fundamental functions of a commodity merchandiser within the agricultural food supply chain, including risk management through basis trading and margin management of a hedged marketing position, are learned through utilizing actual cash grain ownership and exchange-traded futures. One credit lab also engages students directly with regional grain trade, commodity brokers and allied industries.

AGEC 469 Risk Management: Commodity Trading
1 credit, max 6
One-credit lab which engages students in the actual trading of agricultural commodity futures and options. Course emphasizes concepts, tools and strategies as they relate to identifying trading opportunities across agricultural commodities, managing portfolio risk and increasing operational profits through implementing trading positions in commodity futures markets.
Prereq: Instructor Permission

AGEC 477 Law, Ethics, and the Environment
3 credits
Cross-listed with ENVS 477, Joint-listed with AGEC 577 and ENVS 577
Examines the laws and related ethical questions pertaining to social and community-based natural resource and agroecosystem issues. Recommended Preparation: BLAW 265.
Prereq for 477: Junior standing and NRS 235 or FOR 235
Prereq for 577: Graduate standing or Permission

AGEC 478 Advanced Agribusiness Management
3 credits
Gen Ed: Senior Experience
The capstone class for Agribusiness and Agricultural Economics students. Economics and agribusiness theory is put into practice through decision cases. Team building, written, and oral presentation skills are stressed. The course includes a one-hour lab to facilitate group work and instructor-group interaction. (Spring Only)
Prereq: AGEC 301, AGEC 302, ACCT 201, ACCT 202, and Senior standing; or permission

AGEC 481 Agricultural Markets in a Global Economy
3 credits
Gen Ed: International
Analysis of agricultural market competition and performance in a global economy; economics of global food and commodity markets and trade; economic principles applied to interaction of economic events in the world food economy.
Prereq: AGEC 301 or ECON 352 or permission

AGEC 489 Understanding and Using Futures and Options Markets
3 credits
How futures and options markets work, types of futures and options markets, a practical understanding of their role as investment and risk management tools, and individual student management of a simulated futures and options trading account.
Prereq: MATH 143 or higher, and ECON 202 or ECON 272

AGEC 489L Applied Commodity Market Analysis Lab
1 credit
The lab builds upon agricultural marketing risk-management concepts introduced in AGEC 489 -- “Understanding and Using Futures and Options Markets”. Students will develop spreadsheets containing historical supply and demand data along with actual cash and futures price series on chosen commodity sectors. Appropriate tools and methodologies will then be applied to analyze historical patterns, parameters, basis, seasonality and charting techniques. Lab material coverage will coincide with homework assigned in AGEC 489. Dataset, analytical tools, and actual futures trading platform will then be utilized to develop an applied risk-management hedging program.
Coreq: AGEC 489

AGEC 490 Commodity Price Analysis
3 credits
Methods used to analyze factors affecting agricultural prices, analysis of agricultural prices and price movements with respect to time, space, and form, and examination of methods of price forecasting and techniques of time series analysis.
Prereq: STAT 251, AGEC 489 or FIN 466, AGEC 289

AGEC 497 Teaching Ag Econ/Agribusiness
1-3 credits, max 6
Supervised class observation and course preparation, and an opportunity to present one or several lectures in specific agribusiness and agricultural economics areas. Incorporates learning and teaching methods applied in professional settings; may include advanced practices for competitions, field or lab activities, and client interactions. Max enrollment 5. Recommended preparation: senior standing.
Prereq: Permission

AGEC 498 (s) Internship
Credit arranged

AGEC 499 (s) Directed Study
Credit arranged
Agricultural Economics (AGEC)

AGEC 500 Master's Research and Thesis
Credit arranged

AGEC 501 (s) Seminar
Credit arranged

AGEC 502 (s) Directed Study
Credit arranged

AGEC 504 (s) Special Topics
Credit arranged

AGEC 505 (s) Professional Development
Credit arranged

AGEC 506 Faculty Seminar Series
0 credits
Focus on current issues impacting agriculture, natural resources, and community development through seminars introducing research occurring in the department.

AGEC 525 Master's Econometrics
3 credits
Multivariate linear regression and analysis of variance with economic applications. Cooperative: open to WSU degree-seeking students.
Prereq: STAT 431 or equivalent; or Permission of Instructor

AGEC 526 Master's Microeconomics Analysis
3 credits
Master-level, calculus-based producer and consumer theory with selected managerial economics topics. Cooperative: open to WSU degree-seeking students. (Fall only)
Prereq: Permission

AGEC 527 Mathematics for Economists
3 credits
Mathematical methods applicable to economic analysis and research. Cooperative course available to WSU degree-seeking students. (Fall only)
Prereq: ECON 352 and MATH 160 or MATH 170

AGEC 529 Research Methods
1-2 credits
Social science Master's thesis as a research journey toward craftsmanship including elements of imagination, modeling, mindfulness, guidelines, and mentor experiences. Cooperative: open to WSU degree-seeking students.
Prereq: Graduate standing and Permission

AGEC 532 Natural Resource Economics and Policy
3 credits
Economic principles and models applied to natural resource problems, issues, and policies. Cooperative: open to WSU degree-seeking students. (Spring Only)
Prereq: ECON 352 or Permission

AGEC 533 International Trade and Policy
3 credits
International trade theories and policies and research issues related to world trade, with emphasis on agricultural commodity markets. Cooperative: open to WSU degree-seeking students. (Spring Only)
Prereq: ECON 446, AGEC 481, or Permission

AGEC 534 Production Economics
3 credits
Production economics theory and methods applied to problems of production response, economic optimization, technology, policy, risk and dynamics. Cooperative: open to WSU degree-seeking students.
Prereq: AGEC 526 or Permission

AGEC 535 Applied Industrial Organization
3 credits
Economic and strategic management theories and their relevance to agribusiness decision-making, including empirical applications. Cooperative: open to WSU degree-seeking students. (Fall only)

AGEC 577 Law, Ethics, and the Environment
3 credits
Cross-listed with ENVS 577, Joint-listed with AGEC 477 and ENVS 477 Examines the laws and related ethical questions pertaining to social and community-based natural resource and agroecosystem issues. Recommended Preparation: BLAW 265.
Prereq for 477: Junior standing and NRS 235 or FOR 235
Prereq for 577: Graduate standing or Permission

AGEC 587 Regional Economic Development Methods
3 credits
Methods course in the tools of regional economics and community development. Topics include Community Economic Profiling, Input-Output Analysis, Social Accounting, General Equilibrium Analysis, Social Benefit-Cost Analysis, and Non-Market Valuation. Cooperative: open to WSU degree-seeking students. (Fall only)

AGEC 597 Applied Economics Teaching Practicum
1-3 credits
Graded Pass/Fail. The teaching practicum is an opportunity for students to improve teaching methods and techniques, and expand professional skills under the guidance of mentors from the AERS faculty. The teaching practicum may include classroom lectures, demonstrations, grading assistance, or other related activities.

AGEC 599 (s) Non-thesis Master's Research
Credit arranged
Research not directly related to a thesis or dissertation.
Prereq: Permission