

### ***Economic Principles (Ag Ec)***

**1. Introductory Agricultural Economics (3).** Microeconomic principles of resource allocation, production, cost analysis and market price equilibrium with primary application to the agricultural sector; laws of supply and demand in commodity pricing under perfect and imperfect competition; survey of agricultural management, marketing and policy issues. (Former Ag Ec 31)

**100. Intermediate Agricultural Economics (3).** Prerequisite: Ag Ec 1. Microeconomic theory of agricultural production in factor-product, factor-factor, product-product decisions; production costs and economies of size; consumer choice theory; price and output determination under imperfectly competitive markets; marginal productivity theory and the derived demand for agribusiness inputs.

### ***Farm Management (Ag Ec)***

**110. Farm Management (3).** Prerequisite: Ag Ec 1. Production economics principles and budgeting analysis tools for efficient farm planning, organization and administration; economic impacts of crop and animal husbandary practices, yield and price variations, financing and taxation; optimization of land, labor, machinery, and water utilization levels and scheduling. (2 lecture, 3 lab hours) (Former Ag Ec 112)

**114. Advanced Farm Management (3).** Prerequisite: Ag Ec 110. Design, computerization, and analysis of profit maximizing, cost minimizing, and multi-period linear programming models; risk and uncertainty; data and information requirements for decision making; optimizing the level and mix of crop and livestock enterprises; development of farm management plans. (Former Ag Ec 174)

**117. Agricultural Labor-Management Relations (3).** Prerequisite: Ag Ec 1. Economic analysis of the farm labor market; labor productivity, agricultural mechanization and farm employment; farm labor laws and government regulations; agricultural labor relations, unionization, and collective bargaining; farm personnel administration practices and supervisory management principles. (Former Ag Ec 125 and 165)

### ***Agribusiness Management (Ag Ec)***

**120. Agribusiness Management (3).** Prerequisite: Ag Ec 1, 71. Organizational forms and management functions of agribusiness firms; human resource management systems; management science principles for optimizing plant location, equipment replacement, inventory control, and sales volume; operations research techniques, including probability-based network and decision models, for solving agribusiness problems. (Former Ag Ec 167)

**122. Agricultural Cooperative Management (3).** Prerequisite: Ag Ec 120. Philosophical, historical, and legislative evolution of U.S. agricultural cooperatives; uniqueness of cooperative organization, planning, direction, and control functions vis-a-vis standard corporations; legal, financial, and tax considerations in managing input-supply and marketing cooperatives; case studies and field trips to cooperatives. (Former Ag Ec 185T section)

**128. Agricultural Law (3).** Prerequisite: B A 18. Legislative laws, administrative regulations and judicial decisions affecting agriculture; nature and disposition of lawsuits; torts covering trespass, negligence, liability for farm livestock and chemicals; surface and mineral property rights; water law; farm labor law; taxation of farm income and estates. (Former Ag Ec 185T section)

### ***Financial Planning (Ag Ec)***

**30. Farm Accounting (3).** Prerequisite: Ag Ec 1. Basic concepts and principles of financial accounting systems applied to farm operations; mechanics of recording single and double entry transactions under cash and accrual accounting methods; preparation and analysis of enterprise records and financial statements to generate management information. (2 lecture; 3 lab hours) (Former Ag Ec 111 and 151)

**130. Agricultural Finance (3).** Prerequisite: Ag Ec 1, and Ag Ec 30 or Acct 4A. Analysis of farm financial statements; legal instruments of financial transactions; institutional sources of farm credit; time value of money and capital budgeting for agricultural investment; cost of debt and equity capital; risk management strategies; insurance, tax, and farm estate planning (Former Ag Ec 127 and 177)

**136. Farm and Ranch Appraisal (3).** Prerequisite: Ag Ec 110. Principles of agricultural appraisal; physical and economic factors affecting land values; estimation of real estate value using income, cost, and market data approaches; case studies and field problems involving the valuation of local farm and ranch properties. (Former Ag Ec 116 and 185T section)

### ***Agricultural Development (Ag Ec)***

**140. International Agricultural Development (3).** Prerequisite: Ag Ec 1. Agricultural sector development and national economic growth in low income countries; research, extension, and policy strategies for transforming subsistence farmers into commercial growers; foreign aid efforts addressing food deficits, malnutrition, overpopulation, rural underemployment, environmental degradation, inappropriate technology, and capital shortages. (Former Agri 161)

**147. Rural Development Administration (3).** Prerequisite: Ag Ec 140. Application of public administration and business management principles to directing international agricultural technical assistance; infrastructure development, institution building, policy formulation, technology transfer, and rural entrepreneurship in market-oriented and state-planned economies; program planning, project supervision, and contract management overseas. (Former Agri 170)

### ***Public Policy (Ag Ec)***

**150. Agricultural Policy (3).** Prerequisite: Ag Ec 1; Econ 1A. Analysis of public policies affecting the economic position of U.S. and California agriculture; government programs influencing agricultural production, commodity distribution, market prices, and farm income; selected topics concerning American food and fiber system; comparative foreign agricultural policies and U.S. trade. (Former Ag Ec 179)

**153. Agricultural Trade (3).** Prerequisite: Ag Ec 150. Comparative advantage, trade models, protectionist barriers, and balance of payments; world agricultural trade patterns and international commodity agreements; domestic farm programs and foreign trade policies; surplus food aid and concessionary sales overseas; trade liberalization versus preferences issue and economic development.

**155. Natural Resource Economics (3).** Prerequisite: Ag Ec 1. Economic analysis of public policies governing land use, water management, energy generation, mineral exploitation and forest administration; review of population pressures and resource conservation; examination of externalities, property rights issues, resource use planning, agricultural zoning, environmental regulations, and reclamation law. (Former Ag Ec 171)