

FOOD SYSTEMS ECONOMICS AND MANAGEMENT

FSM

Department of Agricultural Economics College of Agriculture and Natural Resources

200. **Introduction to Food Systems Management**

Fall. 3(3-0)

Organization and operation of the industrialized food system: agricultural production, food processing, manufacturing, wholesaling, retailing and consumption. Application of economic and management principles to firms and the overall food system.

310. **Livestock and Product Marketing**

Fall. 3(2-2) Interdepartmental with Animal

Science. Administered by Animal Science.

P: ANS 112. R: Not open to freshmen.

Movement of livestock and products into and through market channels. Market structures, futures, options. Current issues. Field trip required.

320. **Agribusiness and Food Sales (W)**

Spring. 3(3-0)

P: FSM 200 or MSC 300. R: Not open to freshmen and sophomores. Completion of Tier I writing requirement. Selling processes and activities within agribusiness and food firms. Principles and techniques of sales. Operation of sales organizations.

325. **Agribusiness Labor and Personnel Management**

Fall. 3(3-0)

P: FSM 200 or MGT 302 or concurrently. R: Not open to freshmen and sophomores.

Labor for farms and agribusinesses: planning, recruiting, training, scheduling, motivating, supervising, and evaluating. Labor regulations, compensation, and records.

330. **Farm Business Management**

Spring. 3(4-0)

P: FSM 200 or MGT 302. R: Not open to freshmen.

Management, planning, and control of farm production, marketing and financial activities. Problems and evaluation of alternative solutions. Economic principles, budgeting, financial statements.

335. **Food Marketing Management**

Spring. 3(3-0) Interdepartmental with Mar-

keting and Supply Chain Management. Administered by Marketing and Supply Chain Management.

P: FSM 200 or MSC 300. R: Open only to juniors and seniors in College of Business and in programs for which MSC 335 is a catalog-listed requirement.

Management decision-making in food industry organizations (processors, wholesalers, retailers). Marketing and sales in response to customer and consumer needs. Distribution and merchandising systems in domestic and international contexts.

412. **Financial Management in the Food System**

Spring. 3(3-0)

P: ACC 201 or ACC 230 R: Not open to freshmen or sophomores.

Analysis of agricultural business performance using financial statements. Capital budgeting of durable investments. Risk. Alternative methods to control capital asset services. Financial markets and credit institutions affecting agriculture.

421. **Public Policy Issues in Food and Agribusiness**

Spring. 3(3-0)

P: EC 201, FSM 200. R: Not open to freshmen and sophomores.

Objectives, rationale, and consequences of public policy for food and agriculture. Analysis of economic implications for food and agribusinesses, farmers, consumers, and society.

429. **Agribusiness Management (W)**

Spring. 3(4-0)

P: FSM 330. R: Open only to seniors and graduate students. Completion of Tier I writing requirement.

Analysis of agribusiness management functions including planning, organizing, and controlling. Integration of production, marketing, and financial aspects of agribusiness. Solutions to agribusiness managerial problems.

439. **Food Business Analysis and Strategic Planning**

Fall. 3(3-0) Interdepartmental with Market-

ing and Supply Chain Management. Administered by Marketing and Supply Chain Management.

P: MSC 335 or FSM 335; STT 201 or STT 200 or STT 315. R: Open only to juniors and seniors in College of Business and in programs for which MTA 439 is a catalog-listed requirement.

Principles and techniques of business analysis and strategic planning applied to food firms. Food trend forecasts, market potential, competition and cost analyses, business and strategic planning.

441. **Commodity and Futures Marketing**

Spring. 3(3-0)

P: FSM 200, EC 201; STT 200 or STT 201 or STT 315.

R: Not open to freshmen and sophomores.

Supply, demand and prices in commodity markets. Futures and options and their role in forward pricing. Agricultural and food markets.

443. **Food Industry and Cooperative Marketing**

Spring. 3(3-0)

P: FSM 200. R: Not open to freshmen and sophomores.

Multiple firm and cooperative marketing methods. Organization and operation of cooperatives, marketing orders, trade associations and other forms of group action in the food system.

462. **Agricultural Development in Less Developed Countries**

Fall. 3(3-0) Interdepartmental with Public Re-

source Management.

P: EC 201; PRM 260 recommended. R: Not open to freshmen and sophomores.

Factors responsible for agricultural growth, as well as technical and institutional change. Sustainable strategies for increasing food production and rural incomes.

490. **Independent and Supervised Study**

Fall, Spring, Summer. 1 to 6 credits. A student

may earn a maximum of 7 credits in all enrollments for this course.

P: FSM 200; MSC 335 or FSM 330. R: Open only to FSM majors. Approval of department; application required. In-depth independent study of topics and issues affecting the food system. Complementary to previous coursework, adapted to career aspirations.

FORESTRY

FOR

Department of Forestry College of Agriculture and Natural Resources

101. **Michigan's Forests**

Spring. 3(3-0)

Ecological, social and economic roles of Michigan's forests in historic and contemporary context. Geographic similarities and differences in forest resources.

201. **Tenets of Forestry**

Fall. 1(1-0)

R: Open only to Forestry students. Completion of Tier I writing requirement.

History, founding principles, and core concepts of forestry. Stewardship, conservation, professional ethics, and current forestry issues.

202. **Introduction to Forestry**

Fall, Spring. 3(3-0)

Historical development of forestry. Forest growth, protection, management, and products. Relationship of national and world economy and policy to forestry. Emphasis on multiple uses of forests.

204. **Forest Vegetation**

Fall, Spring. 4(3-3)

Nomenclature, classification, and identification of woody plants. Tree structure as it relates to growth and ecosystem dynamics.

206. **Natural Resource Data Analysis**

Spring. 3(2-2) Interdepartmental with Re-

source Development.

P: CPS 101 or CPS 131 or approval of department.

Quantitative analysis of natural resource data. Modeling and display of biophysical and socio-economic data related to natural resource systems.

SA: FOR 207

210. **Fundamentals of Soil and Landscape Science**

Fall. 3(2-3) Interdepartmental with Crop and

Soil Sciences. Administered by Crop and Soil Sciences.

P: CEM 141.

Agricultural and natural resource ecosystems: soil, vegetation and ground water components. Energy, water and nutrient cycles. Soil classification and mapping. Land management and use issues.

211. **Introduction to Gender and Environmental Issues**

Spring. 3(3-0) Interdepartmental with Fisher-

ies and Wildlife, Resource Development, Women's Studies, and Public Resource Management. Administered by Fisheries and Wildlife.

R: Not open to freshmen.

The concept of gender. Overview of environment and habitat. Historical gender roles in environmental management. Gender-based theoretical perspectives. Case studies on developing and developed countries. Environmental management with emphasis on fisheries, wildlife and wetlands. Women environmental professionals.

220. **Forests and the Global Environment**

Fall. 3(3-0)

Relationships between forests, climatic and edaphic factors, and human influences upon forest resources. Deforestation, biodiversity, sustainable forest management and timber trade.

230. **Communicating Forestry Issues**

Spring. 3(2-2)

R: Open only to students in the Forestry major.

Identification of targeted publics for forestry issues information strategies. Public presentations, press releases, public participation activities and organizational communication.

304. **Wood Technology**

Fall. 4(3-2)

P: CEM 141, PHY 231, MTH 116 R: Not open to freshmen and sophomores.

Structure and identification of wood. Physical and mechanical characteristics. Major industrial timber utilization processes including manufacture of lumber, furniture, composites, and paper.