

FOOD SYSTEMS ECONOMICS AND MANAGEMENT

FSM

Department of Agricultural Economics College of Agriculture and Natural Resources

60. 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.

10. Livestock and Product Marketing

Fall, 3(2-2) Interdepartmental with Animal Science. Administered by Animal Science.
P: ANS 112. R: Not open to freshmen.
Involvement of livestock and products into and through market channels. Market structures, futures, options. Current issues. Field trip required.

20. 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.

25. 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.

30. 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 valuation of alternative solutions. Economic principles, budgeting, financial statements.

35. Food Marketing Management

Spring, 3(3-0) Interdepartmental with Marketing 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.

42. 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 Marketing 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 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 Resource 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 Resource 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 Fisheries 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.

**Descriptions —Forestry
of
Courses**

306. Forest Biometry
Spring. 4(3-2)

P: FOR 204, FOR 207; MTH 124 or MTH 132. R: Not open to freshmen and sophomores.

Describing location and area of forest resources. Quantification of site, stand, and tree characteristics. Sampling and inventory. Predicting growth and yield.

310. Foundations of Forest Conservation
Spring. 2(2-0)

R: Not open to freshmen and sophomores.

Analysis of current forest conservation issues. Synthesis of classical forest conservation literature.

404. Forest and Agricultural Ecology

Fall. 4(3-3) Interdepartmental with Crop and Soil Sciences.

P: CSS 210; BOT 105 or BS 110

Structure and function of ecosystems managed for crop and wood production. Productivity, nutrient cycling, community dynamics as affected by management intensity and natural disturbance. Dynamics of managed versus natural ecosystems.

406. Silviculture

Spring. 4(3-3)

P: FOR 204, FOR 404 R: Not open to freshmen and sophomores.

Ecophysiology of tree growth and reproduction. Stand structure, composition and growth. Intermediate stand treatments. Natural and artificial reproduction. Silvicultural techniques.

408. Forest Management

Spring. 4(3-2)

P: FOR 206, FOR 406.

Management of forests for timber production in a multiple-use context. Yield projections, harvest scheduling, management prescriptions, project analysis and administration.

409. Forest Hydrology

Spring of odd-numbered years. 3(2-3) Interdepartmental with Crop and Soil Sciences, and Resource Development.

P: CSS 210, MTH 116 R: Not open to freshmen and sophomores.

Science and technology of the hydrologic cycle and water resources in forest, wildland, wetland, and rural watersheds.

410. Forest Conservation Thesis (W)

Fall, Spring. 3(3-0)

P: FOR 310 R: Open only to seniors in the Forestry major.

Selecting, researching, and evaluating a forest conservation issue and communicating findings in a thesis and a departmental seminar.

419. Geographical Information Systems in Natural Resource Management

Spring. 4 credits. Interdepartmental with Fisheries and Wildlife; Geography; Resource Development; Agricultural Engineering; and Park, Recreation and Tourism Resources. Administered by Fisheries and Wildlife.

P: GEO 221.

The application of geographic information systems, remote sensing, and global positioning systems to integrated planning and management for fish, wildlife, and related resources.

420. Forestry Field Studies

Spring. 3 credits. Offered only at the Huron-Manistee National Forest

P: FOR 306, FOR 404, FOR 406, or concurrently. R: Open only to juniors or seniors in the College of Agriculture and Natural Resources.

Ecological and silvicultural assessments and planning for multiple uses of forest lands. Forest management concepts including soils, biometry, harvesting and protection.

422. Woody Plant Genetics

Fall. 3(2-2)

P: BOT 301

Applications of plant breeding and genetic principles to improve tree species and to preserve biological diversity in forest ecosystems for human benefit.

430. Law and Resources

Fall. 3(3-0) Interdepartmental with Resource Development and Public Resource Management. Administered by Resource Development.

P: RD 200; EC 201 or GBL 395.

Legal principles applied to natural resource use. Sovereignty, property rights, land and water use, jurisdiction, public trust doctrine, fish and game law, mineral rights, and eminent domain. Case and statutory law analysis.

441. Plant Breeding and Biotechnology

Spring. 4(3-2) Interdepartmental with Crop and Soil Sciences, and Horticulture. Administered by Crop and Soil Sciences.

P: CSS 350.

Plant improvement by genetic manipulation. Genetic variability in plants. Traditional and biotechnological means of creating and disseminating recombinant genotypes and cultivars.

450. Forestry in International Development

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

P: FOR 404 R: Open only to seniors and graduate students.

Biophysical, social and economic factors influencing design and implementation of farm, village and community level forestry and agroforestry projects.

451. Cellular and Molecular Principles and Techniques for Plant Sciences

Spring. 4(2-6) Interdepartmental with Crop and Soil Sciences, and Horticulture. Administered by Crop and Soil Sciences.

P: CSS 350 or ZOL 341.

Principles, concepts, and techniques of agricultural plant biotechnology. Recombinant DNA technology, plant molecular biology, transformation, cell tissue, and organ culture in relation to plant improvement.

460. Arboriculture

Fall. 3(2-2)

P: BOT 105; FOR 204, or HRT 211. R: Not open to freshmen and sophomores.

Tree selection and planting to fit climatic, space and edaphic conditions. Diagnosing tree abnormalities. Cultural practices used in the care and maintenance of shade and ornamental trees. Field trip required.

461. Urban Forestry

Spring. 3(3-0)

P: FOR 204 or HRT 211. R: Not open to freshmen and sophomores.

Trees in improving the urban environment. Principles of urban forest management: legal, economic, organizational, and cultural. Street tree planning and inventory systems. Utility forestry and commercial arboriculture. Field trips required.

464. Natural Resource Economics and Social Science (W)

Fall. 3(2-2) Interdepartmental with Park, Recreation and Tourism Resources; Fisheries and Wildlife; and Resource Development.

P: EC 201 or EC 202. R: Not open to freshmen and sophomores. Completion of Tier I writing requirement. Application of economic and social science principles and techniques to production and consumption of natural resources. Benefit-cost analysis. Regional impact analysis. Social impact assessment.

466. Natural Resources Planning and Policy

Spring. 3(2-2) Interdepartmental with Fisheries and Wildlife; Park, Recreation and Tourism Resources; and Resource Development.

R: Open only to seniors and graduate students in Forestry; Fisheries and Wildlife; Park, Recreation and Tourism Resources; and Resource Development. Approval of department; application required.

Scientific, environmental, social, and institutional factors affecting planning and policy-making. Focus on ecosystem-based planning and policy issues through development of a multiple-use plan. Case studies.

478. Pest Management II: Biological Components of Management Systems (W)

Spring of odd-numbered years. 3 credits. Interdepartmental with Entomology, Horticulture, Crop and Soil Sciences, and Fisheries and Wildlife. Administered by Entomology.

P: ENT 404 or ENT 470 or BOT 405 or CSS 402 or FW 328. R: Completion of Tier I writing requirement.

Principles of host plant resistance and biological control and their relationship to the design of agroecosystems. Classification of insect biological control agents.

480. Woody Plant Physiology

Spring. 3(3-0) Interdepartmental with Horticulture. Administered by Horticulture.

P: BOT 301. R: Not open to freshmen and sophomores. Physiology of carbon utilization. Effects of water, temperature, nutrition, and light on apical, vegetative, and reproductive growth of woody plants.

486. Biotechnology in Agriculture: Applications and Ethical Issues

Spring of even-numbered years. 3(3-0) Interdepartmental with Horticulture, Philosophy, and Crop and Soil Sciences. Administered by Horticulture.

P: BS 111 or BOT 105. R: Not open to freshmen and sophomores.

Current and future roles of biotechnology in agriculture: scientific basis, applications. Environmental, social, and ethical concerns.

490. Independent Study in Forest and Wood Science

Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Open only to juniors and seniors. Approval of department.

Special problems course for students qualified for advanced study in some phase of forestry or wood science

801. Forestry Research

Fall. 1(1-0)

R: Open only to graduate students in Forestry.

The philosophy, nature, and procedures of research in forest science.

803. Research Processes in Natural Resources

Fall. 3(3-0) Interdepartmental with Resource Development. Administered by Resource Development.

Research planning and implementation. Structure of research organizations. Applications of research results.

804. Forest Ecology

Spring of even-numbered years. 3(3-0)

P: FOR 404.

Forest productivity, competition and succession. Wild-fire, nutrient cycling, timber management. Biodiversity. Gap, wave, and landscape regeneration. Theories and methods of analysis.

- 809. Advanced Wood Technology**
Spring of even-numbered years. 3(2-2)
R: Open only to graduate students in College of Agriculture and Natural Resources.
Mechanical and physical properties of wood. Sorption, swelling, elasticity, and anisotropy. Composite technology and industry practices.
- 819. Advanced Plant Breeding**
Fall. 3(3-0) Interdepartmental with Horticulture, and Crop and Soil Sciences. Administered by Horticulture.
P: CSS 450, STT 422.
Genetic experiments resulting from breeding strategies with cross- and self-pollinated crop plants. Germplasm collections, mapping populations, and modifications of reproductive biology useful for crop improvement.
- 823. Methods in Genetic Engineering of Plants**
Fall of even-numbered years. 4 credits. Interdepartmental with Crop and Soil Sciences, and Horticulture. Administered by Crop and Soil Sciences.
Bacterial transformation. Plant transformation via Ti-plasmid, protoplast/PEG, and electroporation methods. Detection of foreign gene integration and expression.
- 824. Forest Soils**
Fall of odd-numbered years. 3(2-2)
Evaluation and inventory of forest soils and landscape ecosystems. Physical, water, biological, and chemical processes. Nutrient cycling, diagnosis, and fertilization. Variability, geography, and landscape ecology.
- 827. Techniques in Cytogenetics**
Fall of odd-numbered years. 1 credit. Interdepartmental with Crop and Soil Sciences, and Horticulture. Administered by Crop and Soil Sciences.
Preparation of chromosomes from commercially important plants for cytogenetic analysis.
- 829. The Economics of Environmental Resources**
Fall. 3(3-0) Interdepartmental with Agricultural Economics; Resource Development; Park, Recreation and Tourism Resources; and Economics. Administered by Agricultural Economics.
Economic principles related to environmental conflicts and public policy alternatives. Applications to water quality, land use, conservation, development, and global environmental issues.
- 832. Environmental and Natural Resource Law**
Fall. 3(3-0) Interdepartmental with Resource Development, Agricultural Economics, Crop and Soil Sciences, and Geography. Administered by Resource Development.
P: RD 430.
Origin and development of environmental law. Theories of power, jurisdiction, sovereignty, property interests, pollution, and other bases for legal controls of natural resources. Common law and constitutional limitations on governmental power.
- 835. Silviculture**
Fall of even-numbered years. 3(3-0)
R: Open only to graduate students in Forestry, Fisheries and Wildlife, Botany and Plant Pathology, and Resource Development.
Ecological, genetic, physiological, and societal impacts of silvicultural practices. Current problems in stand management and forest regeneration in temperate and tropical zones.
- 836. Plant Evolution and the Origin of Crop Species**
Fall of even-numbered years. 3(3-0) Interdepartmental with Horticulture, and Crop and Soil Sciences. Administered by Horticulture.
P: CSS 350.
Cultural and biological aspects of the evolution of domestic plants. Origin and diversity of cultivated plants.
- 837. Water Law**
Spring. 3(3-0) Interdepartmental with Resource Development and Agricultural Economics. Administered by Resource Development.
P: RD 430.
Legal principles applicable to surface water and groundwater, private and public water rights, and controls over water resources. Cases, statutes, and administrative procedures.
- 838. Land Use Law**
Spring. 3(3-0) Interdepartmental with Resource Development, Agricultural Economics, and Urban Planning. Administered by Resource Development.
P: RD 430.
Public and private land use controls in the U.S. Civil rights, housing, energy problems, growth management, waste management, and land conservation. Cases, statutes and other regulations.
- 845. Forest Resource Policy**
Spring of even-numbered years. 3(3-0)
Models, processes and analytical methods. Interaction of markets, government, and citizens in policy issue development, formulation, implementation and evaluation.
- 852. Systems Modeling and Simulation**
Fall of even-numbered years. 3 credits. Interdepartmental with Fisheries and Wildlife, Resource Development, and Agricultural Engineering. Administered by Fisheries and Wildlife.
P: STT 422 or STT 442 or STT 464 or GEO 463.
General systems theory and concepts. Modeling and simulation methods. Applications of systems approach and techniques to natural resource management, and to ecological and agricultural research.
- 853. Applied Systems Modeling and Simulation for Natural Resource Management**
Spring of odd-numbered years. 3 credits. Interdepartmental with Fisheries and Wildlife, Resource Development, Agricultural Engineering, and Zoology. Administered by Fisheries and Wildlife.
P: FW 820 or BE 486 or ZOL 851 or approval of department. R: Open only to seniors and graduate students
Mathematical models for evaluating resource management strategies. Stochastic and deterministic simulation for optimization. System control structures. Team modelling approach.
- 864. Agroforestry Systems**
Spring of even-numbered years. 3(3-0)
R: Open only to graduate students majors in Botany and Plant Pathology, Crop and Soil Sciences, Forestry, and Horticulture.
Biophysical and ecological aspects of agroecology and agroforestry. Nutrient cycling and the soil, root, tree and crop interface.
- 866. Economics of Renewable Resources**
Spring of odd-numbered years. 3(2-2) Interdepartmental with Resource Development.
P: AEC 829 or EC 803 or EC 805
Applications of economic theory and analysis to renewable natural resources problems. Focus on renewable resource interactions, including multiple-use forestry and agroforestry.
- 890. Special Problems**
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 7 credits in all enrollments for this course.
R: Approval of department; application required.
Advanced individual study in an area of forestry.
- 891B. Selected Topics in Plant Breeding and Genetics**
Fall, Spring, Summer. 1 to 2 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Horticulture, and Crop and Soil Sciences. Administered by Horticulture.
R: Open only to graduate students in Plant Breeding and Genetics or Genetics. Approval of department.
Selected topics in plant breeding.
- 892. Plant Breeding and Genetics Seminar**
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. Interdepartmental with Horticulture, and Crop and Soil Sciences. Administered by Horticulture.
Experience in review, organization, oral presentation, and analysis of research.
- 899. Master's Thesis Research**
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 99 credits in all enrollments for this course.
- 923. Theory of Resource and Environmental Economics**
Spring of even-numbered years. 3(3-0) Interdepartmental with Agricultural Economics; Resource Development; Park, Recreation and Tourism Resources; and Economics. Administered by Agricultural Economics.
P: AEC 829, EC 805.
Economic theory of environmental change and control. Market and non-market allocation mechanisms. Temporal issues of conservation and growth. Contemporary issues in research and policy.
- 930. Advanced Forest Genetics**
Fall of odd-numbered years. 2(1-2) Interdepartmental with Horticulture, and Crop and Soil Sciences.
P: HRT 819 or HRT 836.
Applications of genetics, plant breeding, and biotechnology to the improvement, and preservation of diversity, of tree species.
- 941. Quantitative Genetics in Plant Breeding**
Spring of even-numbered years. 3(3-0) Interdepartmental with Crop and Soil Sciences, and Horticulture. Administered by Crop and Soil Sciences.
P: CSS 450, STT 422.
Theoretical genetic basis of plant breeding with emphasis on traits exhibiting continuous variation. Classical and contemporary approaches to the study and manipulation of quantitative trait loci.
- 943. Techniques of Analyzing Unbalanced Research Data**
Spring. 4(4-0) Interdepartmental with Animal Science, Crop and Soil Sciences, Horticulture, and Fisheries and Wildlife. Administered by Animal Science.
P: STT 464. R: Open only to graduate students in the College of Agriculture and Natural Resources.
Linear model techniques to analyze research data characterized by missing and unequal number of observations in classes. Simultaneous consideration of multiple factors. Estimable comparisons. Hypothesis testing. Computational strategies. Variance and covariance components. Breeding values.

**Descriptions —Forestry
of
Courses**

976. Multivariate Methods in Agriculture and Natural Resources
Spring. 4(4-0) Interdepartmental with Animal Science, and Fisheries and Wildlife.
P: STT 422, MTH 314. R: Open only to graduate students in the College of Agriculture and Natural Resources and in the Interdepartmental Graduate Specializations in Ecology and Evolutionary Biology. Application of multivariate methods to research problems. Hotelling's T-test, profile analysis, discriminant analysis, canonical correlation, principal components, principal coordinates, correspondence analysis, and cluster analysis.

999. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course.
R: Open only to Ph.D. students in Forestry.

FRENCH

FRN

**Department of Romance and
Classical Languages
College of Arts and Letters**

101. Elementary French I
Fall, Spring. 4(4-1)
R: No previous experience in French or designated score on French placement test. Not open to students with credit in FRN 150.
Practice in using and understanding French to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

102. Elementary French II
Fall, Spring. 4(4-1)
P: FRN 101 or designated score on French placement test. R: Not open to students with credit in FRN 150.
Further practice in using and understanding French to develop listening, speaking, reading, and writing skills. Pronunciation, grammar, vocabulary, and cultural topics.

150. Review of Elementary French
Fall, Spring. 3(3-1)
R: Open to students with high school credit in French and designated score on French placement test. Not open to students with credit in FRN 101 or FRN 102.
Review of college first-year French for students who had the language in high school and who need to strengthen communication skills, vocabulary, grammar, and pronunciation before study at the 200 level.

201. Second-Year French I
Fall, Spring. 4(4-0)
P: FRN 102 or FRN 150 or designated score on French placement test.
Intermediate-level review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the French-speaking world.

202. Second-Year French II
Fall, Spring. 4(4-0)
P: FRN 201.
Further review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the French-speaking world.

290. Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
R: Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

320. Grammar and Composition (W)
Fall, Spring. 3(3-0)
P: FRN 202 or designated score on French placement test. R: Completion of Tier I writing requirement.
Systematic review of grammar. Extensive writing in French.

330. French Phonetics
Fall, Spring. 3(3-0)
P: FRN 202 or designated score on French placement test.
Analysis of French pronunciation for listening and speaking.

340. Introduction to Reading French Literature (W)
Fall, Spring. 3(3-0)
P: FRN 202 or designated score on French placement test. R: Completion of Tier I writing requirement.
Close reading and interpretation of French drama, poetry, fiction, and other prose forms.

350. The Contemporary French Scene
Fall. 3(3-0)
P: FRN 320, FRN 340.
Institutions, history, arts, and major sociopolitical issues of France and its former colonies from 1945 to the present, with an emphasis on the Fifth Republic; class conducted in French.

355. French Literature in English Translation
Spring of even-numbered years. 3(3-0)
R: Not open to freshmen.
Representative works and themes of French literature.

400. Reading French for Graduate Students
Spring. 3(3-0)
R: Not open to freshmen and sophomores.
Intensive study of French for graduate students needing a reading knowledge of the language.

410. Survey of French Literature I
Fall. 3(3-0)
P: FRN 320, FRN 340.
French literature from the Middle Ages to the Enlightenment.

420. Survey of French Literature II
Spring. 3(3-0)
P: FRN 320, FRN 340.
French literature from the Enlightenment to the present.

425. Advanced Studies in French Language
Fall. 3(3-0)
P: FRN 320, LIN 200 or LIN 401 or ROM 401.
Translation, stylistics, composition, creative writing, prescriptive grammar.

430. French Linguistics
Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
P: FRN 320, FRN 330; LIN 401 or ROM 401. R: Approval of department.
Key issues in French linguistics and contrastive structures of French and English.

440. Francophone Cultures and Civilizations
Spring. 3(3-0)
P: FRN 350.
Social, political, intellectual, and artistic life of France and the French-speaking world in relation to the French language, literatures, and other cultural media.

450. French Literature of the Middle Ages
Fall of even-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Major currents of the Middle Ages as reflected in the writings of representative authors of the period.

455. French Literature of the 16th Century
Spring of odd-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Literature reflecting major currents of the Renaissance and Reformation.

460. French Literature of the 17th Century
Fall of odd-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Literature reflecting major currents of the Baroque and classical periods.

465. French Literature of the 18th Century
Spring of even-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Literature reflecting major currents of the French Enlightenment.

470. French Literature of the 19th Century
Fall of even-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Literature reflecting major currents of nineteenth-century France.

475. French Literature of the 20th Century
Spring of odd-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Literature reflecting major currents of the twentieth-century France.

480. Literature of Quebec
Fall of odd-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Major works of Quebec literature from the seventeenth-century to the present.

485. Francophone Literatures of the Third World
Spring of even-numbered years. 3(3-0)
P: FRN 410, FRN 420.
Francophone literatures of West Africa, the Maghreb, Madagascar, the Caribbean, and Vietnam.

490. Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.
R: Not open to freshmen and sophomores. Approval of department.
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

491. Special Topics in French
Fall, Spring. 3(3-0)
R: Not open to freshmen and sophomores. Approval of department.
Special topics supplementing regular course offerings proposed by faculty on a group study basis.

492. Senior Writing Project
Fall, Spring, Summer. 1(1-0)
R: Open only to seniors in French.
Research and preparation of a paper on an interdisciplinary subject that synthesizes at least three areas of a major's undergraduate education. Students work under the supervision of a faculty member.

800. Current Approaches to French Instruction
Fall. 3(3-0)
Theoretical and practical view of methodologies of teaching French.

805. Evolution of the French Language
Fall of even-numbered years. 3(3-0)
Diachronic examination of the phonological, morphological, and syntactic developments of French as it evolved from Latin.