Forestry--FOR

842 Population Genetics, Genealogy and Genomics
Fall. 3(3-0) Interdepartmental with Animal Science; Crop and Soil Sciences; Genetics; Fisheries and Wildlife; Horticulture. RB: Precalculus, basic genetics. Population genetic processes underlying patterns of molecular genetic variation. Genealogical approaches to the study of genomic diversity, phylogenetic reconstruction, and molecular ecology.

852 Systems Modeling and Simulation
Fall of even years. 3(3-0) Interdepartmental with Fisheries and Wildlife; Biosystems Engineering; Resource Development. Administered by Department of Fisheries and Wildlife. P:NM: 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 years. 3(2-2) Interdepartmental with Fisheries and Wildlife; Biosystems Engineering; Resource Development; Zoology. Administered by Department of Fisherries and Wildlife. P:NM: (FW 820 or BE 486 or ZOL 851) 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 modeling approach.

855 Gender, Justice and Environmental Change: Issues and Concepts
Fall of even years. 3(3-0) Interdepartmental with Fisheries and Wildlife; Anthropology; Resource Development; Sociology. Administered by Department of Fisheries and Wildlife; RB: Background in social science, environmental science, or natural resources. Issues and concepts related to gender, ecology, and environmental studies. Key debates and theoretical approaches to addressing environmental issues from a gender and social justice perspective. Gender and environment issues and processes from a global perspective.

859 Gender, Justice, and Environmental Change: Methods and Application
Fall of odd years. 3(3-0) Interdepartmental with Anthropology; Fisheries and Wildlife; Resource Development; Sociology. Administered by Department of Anthropology. RB: Background in social science, environmental science, or natural resources. Methods and case studies related to gender, ecology, and environmental studies. Methodological and fieldwork issues from a feminist perspective and in international/intercultural contexts. Qualitative and quantitative methods for integrating social and environmental data.

866 Economics of Renewable Resources
Spring of odd years. 3(2-2) Interdepartmental with Resource Development. P:NM: (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.

870 Techniques of Analyzing Unbalanced Research Data
Spring. 4(4-0) Interdepartmental with Animal Science; Crop and Soil Sciences; Fisheries and Wildlife; Horticulture. Administered by Department of Animal Science. P:NM: STT 464. R: Open only to graduate students in the College of Agriculture and Natural Resources. SA: ANS 943. Not open to students with credit in ANS 943. Linear model techniques to analyze biological research data characterized by missing and unequal numbers of observations in classes. Consideration of multiple factors. Structure of breeding values and estimation of population parameters from variance and covariance components.

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; Crop and Soil Sciences. Administered by Department of Horticulture. R: Open only to graduate students in Plant Breeding and 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; Crop and Soil Sciences. Administered by Department of 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. Master's thesis research.

923 Advanced Environmental and Resource Economics
Spring of even years. 3(3-0) Interdepartmental with Agricultural Economics; Economics; Park, Recreation and Tourism Resources; Resource Development. Administered by Department of Agricultural Economics. P:NM: (AEC 829 and EC 805) Advanced economic theory of environmental management and policy. Treatment of externalities and market and non-market approaches to environmental improvement. Topics in conservation and sustainable economic growth. Applications to search and policy.

925 Environmental and Resource Economics Research
Spring of odd years. 3(3-0) Interdepartmental with Agricultural Economics; Resource Development; Park, Recreation and Tourism Resources; Economics. Administered by Department of Agricultural Economics. P:NM: (AEC 829 and EC 805) SA: AEC 991H. Topics such as contingent or non-market valuation, institutional analysis, pollution prevention, environmental quality and location, recreational demand modeling, and environmental risk management. Research process in environmental and resource economics.

941 Quantitative Genetics in Plant Breeding
Spring. 3(3-0) Interdepartmental with Crop and Soil Sciences; Horticulture. Administered by Department of Crop and Soil Sciences. P:NM: (CSS 450 and 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.

976 Multivariate Methods in Agriculture and Natural Resources
Spring. 4(4-0) Interdepartmental with Animal Science; Fisheries and Wildlife. P:NM: (STT 422 and 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. Doctoral dissertation research.
150 Intensive Review of Elementary French
Fall, Spring. 5(5-1) P:M: Designated score on French placement test. RB: Two years of high school French or the equivalent. R: Open to students with high school credit in French. Not open to students with credit in FRN 101 or FRN 102.

Intensive review of elementary-level French for students who have had at least two years of French at the secondary level and who need to strengthen communication skills and knowledge of French language and culture.

201 Second-Year French I
Fall, Spring. 4(4-0) P:M: (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:M: (FRN 201)

Further review and development of aural comprehension, speaking, reading, and writing skills. Topics in the cultures of the French-speaking world.

250 Intensive Intermediate French
Fall, Spring. 5(5-2) P:M: (FRN 102 or FRN 150) or designated score on French placement test. RB: Study Abroad experience in a French-speaking country. R: Approval of department. Not open to students with credit in FRN 201 or FRN 202.

Intensive intermediate-level French. Development of oral comprehensive, speaking, reading and writing skills. Topics in the cultures of the French-speaking world. Strengthen communication skills, cross-cultural understanding, critical thinking.

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 Self-Expression in Writing (W)
Fall, Spring. 3(3-0) P:M: (FRN 202 or FRN 250) or designated score on French placement test. Completion of Tier I writing requirement.

Writing practice in a variety of forms. Reading of excerpts from French and Francophone literature in order to enrich vocabulary and analyze style. Grammar review.

330 French Phonetics
Fall, Spring. 3(3-0) P:M: (FRN 202 or FRN 250) 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:M: (FRN 202 or FRN 250) or designated score on French placement test. Completion of Tier I writing requirement.

Close reading and interpretation of French drama, poetry, fiction, and other prose forms.

355 French Literature in English Translation
Spring of even 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 or sophomores.

Intensive study of French for graduate students needing a reading knowledge of the language.

415 Introduction to French Studies I: Metropolitan France
Fall. 3(3-0) P:M: (FRN 320 and FRN 340)

Aspects of the culture of France in its many manifestations: literary, artistic, musical, linguistic. Emphasis on historical and social analysis of French cultural artifacts.

416 Introduction to French Studies II: Francophone Cultures
Spring. 3(3-0) P:M: (FRN 320 and FRN 340)

Exploration of French culture in the Francophone world outside metropolitan France.

425 Advanced Studies in French Language
Fall. 3(3-0) P:M: (FRN 320) and (LIN 200 or LIN 401 or ROM 401)

To broaden advanced students’ capacities for self-expression. Accurate form and appropriate expression through translation, composition or creative writing. Examination of contrasting styles of expression in view of developing nuances.

430 French Linguistics
Spring. 3(3-0) R: Approval of department.

A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (FRN 320 and FRN 330) and (LIN 200 or LIN 401 or ROM 401)

Key issues in French linguistics and contrastive structures of French and English.

444 Business French
Fall. 3(3-0) P:M: (FRN 320)

Development of functional business language skills through readings, discussions, and assignments based on materials dealing with the French economic system and France in world trade.

445 Theme-Based Seminar
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FRN 415)

Organized by themes such as: Francophone women, the uses of myth, the individual and society. Texts may be of diverse literary and artistic forms and from different historical periods.

446 History-Based Seminar
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FRN 415)

Organized by century or artistic period. Examination of the historical, intellectual, and artistic climate surrounding texts.

447 Genre-Based Seminar
Fall, Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (FRN 415)

Based on significant literary or artistic genre such as poetry, novel, short story, essay, theater, film or musical theater from either a synchronic or diachronic perspective.

490 Independent Study
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or 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 or 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 years. 3(3-0)

Diachronic examination of the phonological, morphological, and syntactic developments of French as it evolved from Latin.

806 Topics in French Linguistics
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Approval of department.

Key issues in theoretical and applied French linguistics. Syntax, morphology, phonology, and semantics. Foreign language acquisition.

807 Topics in the Development of French Culture
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

French culture through the history of ideas, through the evolution of institutions, or through literature and the related arts.

810 Studies in Medieval French Literature
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

Works of major writers of the French Middle Ages.

815 Studies in 16th-Century French Literature
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.

Works of major prose writers and poets of the Renaissance and Reformation.
GENERAL BUSINESS
AND BUSINESS LAW

GBL

Department of Finance
The Eli Broad College of Business and The Eli Broad Graduate School of Management

323 Introduction to Business Law
Fall, Spring. 3(3-0) R: Open only to students in programs for which GBL 323 is a catalog-listed requirement. Not open to students with credit in GBL 395 or GBL 395H.
Introduction to the legal system. Basic concepts of constitutional law, torts, contracts, and product liability. Administrative law and government regulation of business.

395 Law, Public Policy, and Business – Honors (W)
Fall, Spring. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to seniors or honors in the Honors College. Not open to students with credit in GBL 395 or GBL 395H.
Structure of the legal system and basic concepts of constitutional law, torts, contracts, and product liability. Administrative law and government regulation of business.

420 Role of Law and Lawyers in Society (W)
Fall, Spring. 3(3-0) P:M: (GBL 395 or GBL 395H) and completion of Tier I writing requirement. R: Open only to seniors or approval of department.

447 Hospitality Law
Fall, Spring. 3(3-0) P:M: (GBL 395 or GBL 395H) R: Open only to seniors or graduate students in The School of Hospitality Business.
Legal aspects of hospitality industry, including contracts and sales, torts, commercial paper, and organization. Dynamics of the changing work force and employment discrimination. Franchising.

451 Law of Commercial Transactions
Spring. 3(3-0) R: Open only to seniors or graduate students in Accounting.
Law of contracts and sales, commercial paper, secured transactions, consumer credit, and debtor-creditor relationships.

460 International Law and Business
Spring. 3(3-0) P:M: (GBL 395 or GBL 395H) R: Open only to seniors or graduate students.
The impact of international law on business practices. Government regulation of international business.