

**910. Modeling for Natural Resources Management**  
Spring of even-numbered years. 3(2-2) Interdepartmental with Resource Development.  
P: AEC 892B.  
Simulation and optimization models for developing resource management strategies. Decision and policy analysis.

**923. Theory of Resource and Environmental Economics**  
Spring of even-numbered years. 3(3-0) Interdepartmental with Agricultural Economics, Resource Development, Park and Recreation 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.

**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

### 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**  
Fall, Spring. 3(3-0)  
P: FRN 202 or designated score on French placement test.  
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**  
Fall, Spring. 3(3-0)  
P: FRN 202 or designated score on French placement test.  
Close reading and interpretation of French drama, poetry, fiction, and other prose forms.

## FRN

**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, FRN 330; LIN 401 or ROM 401.  
Translation, stylistics, composition, creative writing, prescriptive grammar.

**430. French Linguistics**  
Spring. 3(3-0)  
P: FRN 320, FRN 330; LIN 401 or ROM 401.  
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.

**Descriptions — French  
of  
Courses**

- 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 seven-teenth-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.
- 800. Current Approaches to French Instruction**  
*Fall. 3(3-0)*  
Theoretical and practical view of methodologies of teaching French.
- 801. Methods of Research in French Literature**  
*Spring. 1(1-0)*  
Research tools in French literature.
- 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.
- 806. Topics in French Linguistics**  
*Spring of even-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.*  
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-numbered 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-numbered 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-numbered 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.
- 820. French Literature of the 17th Century**  
*Spring of odd-numbered 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 seventeenth century.
- 825. Studies in 18th-Century French Literature**  
*Fall of odd-numbered 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 Enlightenment.
- 830. Studies in 19th Century Literature**  
*Spring of even-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.*  
Major authors and selected topics in poetry, prose, and drama of the nineteenth century.
- 835. Studies in 20th Century Literature**  
*Fall of odd-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.*  
Spiritual, intellectual, psychological, and aesthetic conflicts in texts with world-wide impact.
- 840. French Quebecois Literature**  
*Spring of odd-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.*  
R: Approval of department.  
Major authors and selected topics in the poetry, prose, and drama of Quebec.
- 845. Francophone Third World Literature**  
*Fall of odd-numbered years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.*  
Leading figures, themes, and movements of Francophone literatures outside France. The colonial period, Negritude, satire, commitment and revolution, and problems of independence.
- 890. Independent Study**  
*Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course.*  
R: Approval of department.  
Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.
- 891. Special Topics in French**  
*Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.*  
R: Approval of department.  
Special topics supplementing regular course offerings proposed by faculty for graduate students on a group study basis.
- 999. Doctoral Dissertation Research**  
*Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course.*  
R: Approval of department.

**GENERAL BUSINESS AND  
BUSINESS LAW** **GBL**

**Department of General Business  
and Business Law  
The Eli Broad College of Business  
and The Eli Broad Graduate  
School of Management**

- 395. Law, Public Policy, and Business**  
*Fall, Spring, Summer. 3(3-0)*  
R: Open only to juniors and seniors. Not open to students with credit in GBL 395H.  
Structure of the legal system. Basic concepts of constitutional law, torts, contracts, and product liability. Administrative law and government regulation of business.
- 395H. Law, Public Policy, and Business -- Honors**  
*Fall. 3(3-0)*  
R: Open only to Honors College juniors and seniors. Not open to students with credit in GBL 395.  
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: GBL 395. R: Open only to seniors and graduate students. Completion of Tier I writing requirement.  
Law and its relationship to economics, business, and social justice. Comparative law. Legislative and judicial processes. The role of lawyers. Overview of legal education.
- 447. Hospitality Law**  
*Fall, Spring. 3(3-0)*  
P: GBL 395. R: Open only to seniors and graduate students.  
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)*  
P: GBL 395. R: Open only to seniors and graduate students.  
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: GBL 395. R: Open only to seniors and graduate students.  
The impact of international law on business practices. Government regulation of international business.
- 480. Corporate and Professional Social Responsibility**  
*Spring. 3(3-0)*  
P: GBL 395. R: Open only to seniors and graduate students.  
Institutionalization of American working life, large business institutions, and the law. Control of large business institutions. Social obligations of corporations and professions. Impact of institutional values on individual values.
- 490. Independent Study**  
*Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.*  
P: GBL 395. R: Open only to seniors.  
Program of observation and work in selected business firms and government. Supervised independent research on selected legal topics.