

## French—FRN

- 820 French Literature of the 17th Century**  
Spring of odd 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 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 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 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 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 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.

Doctoral dissertation research.

## 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 regulations.

- 395 Law, Public Policy, and Business**  
Fall, Spring, Summer. 3(3-0) R: Open only to juniors or seniors in the College of Business. Not open to students with credit in GBL 395H or GBL 323.

Structure of the legal system. Legal environment of business: constitutional law, torts, contracts, and product liability. Administrative law and government regulation of business.

- 395H Law, Public Policy, and Business – Honors (W)**  
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. R: Open only to juniors or seniors in the Honors College. 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:M: (GBL 395 or GBL 395H) and completion of Tier I writing requirement. R: Open only to seniors or approval of department.

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: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.

- 480 Corporate and Professional Social Responsibility**  
Spring. 3(3-0) P:M: (GBL 395) R: Open only to seniors or 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:M: (GBL 395 or GBL 395H) R: Open only to seniors or graduate students. Approval of department.

Program of observation and work in selected business firms and government. Supervised independent research on selected legal topics.

- 491 Topics in Business Law**  
Fall of even years. 1 to 4 credits. A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (GBL 395 and GBL 395H)

Current and emerging issues in business law to supplement and enrich existing courses.

- 848 Legal Environment of Business**  
Fall, Spring. 3(3-0) R: Open only to students in the Professional Accounting, Master of Business Administration programs, and to students in programs for which GBL 848 is a catalog-listed requirement.

The legal, political, and social environment of business and the structural framework in which law functions.

- 890 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:NM: (GBL 848) R: Open only to graduate students in Business. Approval of department.

Faculty-supervised independent study.

## GENETICS GEN

### College of Natural Science

- 800 Genetics Seminar**  
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 12 credits in all enrollments for this course.

Critical analysis of current literature. Student presentations.

- 835 Eukaryotic Molecular Genetics**  
Spring. 3(3-0) Interdepartmental with Microbiology and Molecular Genetics. Administered by Department of Microbiology and Molecular Genetics. P:NM: (BMB 462 and ZOL 341) R: Open only to graduate students in the colleges of Agriculture and Natural Resources, Engineering, Human Medicine, Natural Science, Osteopathic Medicine, and Veterinary Medicine.

Gene structure and function in animals, plants, and fungi. Basic aspects of modern human genetics and the genetic basis for disease. Molecular genetic analyses. Eukaryotic modeling systems.

**842 Population Genetics, Genealogy and Genomics**  
Fall. 3(3-0) Interdepartmental with Forestry; Animal Science; Crop and Soil Sciences; Fisheries and Wildlife; Horticulture. Administered by Department of Forestry. RB: Pre-calculus, basic genetics

Population genetic processes underlying patterns of molecular genetic variation. Genealogical approaches to the study of genomic diversity, phylogenetic reconstruction, and molecular ecology.

**851 Molecular Entomology**  
Fall of odd years. 3(3-0) Interdepartmental with Entomology. Administered by Department of Entomology.

Analysis of molecular processes unique to insects, and their potentials for genetic engineering.

**880 Laboratory Rotation**  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Ph.D. majors in Genetics.

Participation in research with faculty members.

**999 Doctoral Dissertation Research**  
Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Ph.D. students in Genetics.

Doctoral dissertation research.

## GEOGRAPHY GEO

### Department of Geography College of Social Science

**113 Introduction to Economic Geography**  
Fall, Spring. 3(3-0)  
Spatial distribution of resources, population, enterprise, trade, consumption, and production. Interaction of those distributions at local to global scales.

**151 Cultural Geography**  
Fall. 3(3-0)  
Systematic approach to the spatial distribution of cultural features, processes, and relationships.

**203 Introduction to Meteorology**  
Fall. 3(3-0)  
Fundamentals of meteorology. Energy balance, adiabatic processes, horizontal motion, cyclogenesis, and severe weather.

**204 World Regional Geography**  
Fall. 3(3-0)  
In a time of increasing globalization of economic, political and technological processes, different societies on different continents are responding in various ways. This course explores the conditions that contribute to diversity in different world regions including economic, social, political and environmental processes.

**206 Physical Geography**  
Fall, Spring. 3(3-0)  
Geographic and functional interrelationships within the physical environment: Earth-sun relationships, weather, climate, soils, vegetation and landforms (terrain characteristics).

**206L Physical Geography Laboratory**  
Fall, Spring. 1(0-2) P:M: (GEO 206 or concurrently)

Geographic aspects of weather, climate, soil, vegetation, and terrain. Interpretation and application of maps and remotely sensed imagery.

**221 Introduction to Geographic Information**  
Fall, Spring. 3(2-2) SA: GEO 223, GEO 225  
Principles and methods of spatial data collection, handling, analysis, and display. Introduction to remote sensing, geographic information systems, and cartography.

**259 Geography of Recreation and Tourism**  
Fall of even years. 3(3-0)

Cultural, physical, and biotic factors affecting the distribution of recreation and tourism resources and participation. U.S. and international examples and case studies.

**306 Environmental Geomorphology**  
Spring. 3(3-0) Interdepartmental with Geological Sciences. P:M: (CSS 210 or GEO 203 or GEO 206 or GEO 330 or GEO 333 or GEO 259 or GLG 201 or GLG 304 or ISP 201 or ISP 203 or ISS 310 or RD 201) and completion of Tier I writing requirement.

Relationships of running water, weathering, gravity, ice, waves, wind, and biota (including humans) to terrain and soils. Evolution of landscapes. Classical and modern interpretations.

**313 Introduction to Data Analysis for Urban and Regional Planners**  
Fall. 3(2-2) Interdepartmental with Urban Planning. Administered by Department of Geography. P:NM: (CPS 101 or CPS 131) and (UP 201)

Data gathering analysis, information presentation, and basic techniques of urban planning. Application of related computer programs and software.

**314 Methods for Investigation of Urban Systems**  
Spring. 4(3-2) Interdepartmental with Urban Planning. Administered by Department of Geography. P:M: (STT 201 and CSE 101) RB: (UP 201)

Models, approaches, and techniques for urban and regional problem analysis, research, program evaluation, and project management. Application of related computer software.

**324 Remote Sensing of the Environment**  
Fall, Spring. 4(2-4) SA: GEO 224  
Features and interpretation methods of remotely sensed imagery, especially black-and-white and color infrared airphotos. Basic features of radar, thermal, and multispectral imagery. Interpretation for agriculture, archaeology, fisheries, forestry, geography, landscape architecture, planning, and wildlife management.

**326 Thematic Cartography**  
Fall. 4(2-4) P:M: (GEO 221) SA: GEO 223  
Principles and techniques of map making. Decision making in designing thematic maps.

**330 Geography of the United States and Canada**  
Fall, Spring, Summer. 3(3-0)  
Regional analysis. Evolution and status of environmental, demographic, economic, and sociocultural patterns and processes.

**333 Geography of Michigan and the Great Lakes Region**  
Fall of odd years. 3(3-0)

Michigan's physical, historical, and economic geography. Interrelationships between the physical environment (rocks, landforms, soils, climate, vegetation, hydrology) and historical and contemporary land uses. Demographic and agricultural patterns. Human history and settlement patterns contemporary recreational opportunities.

**335 Geography of Latin America**  
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. R: Not open to freshmen.

Physical and human geography of Latin America. Current development issues, especially people-environment interaction in urban and rural areas. Topics include migration, urbanization, and industrialization.

**336 Geography of Europe**  
Fall of odd years. 3(3-0) P:M: Completion of Tier I writing requirement. R: Not open to freshmen.

Major regions and nations, including their physical resources, peoples, political structures, and economies.

**337 Geography of East Asia**  
Spring. 3(3-0) P:M: Completion of Tier I writing requirement. R: Not open to freshmen.

Spatial patterns and processes of physical and human geography in China, Japan, Korea, and Taiwan. Emphasis on development problems, especially since 1950.

**338 Geography of Africa**  
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. R: Not open to freshmen.

Physical and human geography of Africa. Current development issues, especially people-environment interaction in urban and rural areas. Topics include drought, agricultural patterns, hunger, rural development, migration, and urbanization.

**401 Geography of Plants of North America**  
Spring of even years. 3(3-0) R: Not open to freshmen or sophomores.

Geography of Plants in North America with emphasis on the East. Related ecological principles, soils, and post-Cretaceous geologic history. Some field instruction.

**402 Agricultural Climatology**  
Fall of even years. 3(3-0) Interdepartmental with Biosystems Engineering. P:M: (MTH 104 or MTH 110 or MTH 116) R: Not open to freshmen or sophomores. SA: AE 402

Relationships between climate and agriculture in resource assessment, water budget analysis, meteorological hazards, pests, crop-yield modeling, and impacts of global climate change.

**403 Microclimate and Its Measurement**  
Fall of odd years. 4(3-3) Interdepartmental with Biosystems Engineering. Administered by Department of Agricultural Engineering. P:M: (MTH 116 or MTH 124 or MTH 132 or LBS 118)

Climate near the earth's surface. Energy balance, thermal radiation exchange, heat fluxes, temperature sensors, wind speed and direction, humidity and evapotranspiration and their measurement.