910. Resource Economics Proseminar
Spring, 3(3-0) May reenroll for a maximum of 9 credits. Approval of department. Interdepartmental with the departments of Agricultural Economics and Resource Development. A seminar wherein advanced graduate students in the fields of resource economics participate with faculty in the joint conduct of a major research project in resource economics and policy.

940. Theoretical Population Genetics
Winter, 4(4-0) MTH 113, STT 422 or approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Horticulture. Discussion of mathematical theories in population genetics and experimental works on natural and laboratory populations.

941. Quantitative Genetics in Plant Breeding
Spring of even-numbered years, 4(4-0) STT 423, CSS 853 or approval of department. Interdepartmental with the departments of Crop and Soil Sciences, and Horticulture. Administered by the Department of Crop and Soil Sciences.

341. Survey of Business Law
Fall, Winter, Spring, 4(4-0) Juniors. Not open to students with majors in the College of Business.

400H. Honors Work
Fall, Winter, Spring, Summer. 1 to 15 credits. Approval of department.

431. Law and Business
Fall, Winter, Spring, Summer, 4(4-0) GBL 430. Law of business associations, administrative agencies and process, the constitution and the business enterprise, liability to consumers, securities, regulation of business conduct and structure, business ethics and social responsibility.

447. Hotel Law
Winter, Spring, 4(4-0) GBL 430. Legal aspects of the hospitality industry.

450. Contracts and Business Organizations
Fall, Winter, Spring, 4(4-0) Law of contracts, including concept of freedom of contract and limitations, agency, and business organizations, including sole proprietorships, partnerships, and corporations. Accountant's professional responsibility.

468. Field Studies
Fall, Winter, Spring, Summer, 3(3-0) May reenroll for a maximum of 8 credits. Approval of department.

Genealogy — Description of Courses

GENERAL BUSINESS AND BUSINESS LAW

805. Business Ethics
Spring, 4(4-0) Graduate student in the College of Business or approval of instructor. Interdepartmental with and administered by the Department of Philosophy.

848. The Legal Environment of Business
Fall, 4(4-0) Critical examination of the environment in which business operates, with consideration of component elements of the legal environment of business and the structural framework in which law functions.

878A. Seminar in Business Law
Fall, Winter, Spring, GBL 845 or approval of department.

878B. Seminar in Business Law
Fall, Winter, Spring, 4(4-0) GBL 845 or approval of department.

GENETICS

College of Natural Science

800. Genetics Seminar
Fall, Winter, Spring, 1(1-0) May reenroll for a maximum of 12 credits. Approval of director.

GENETICS

842. Chromosome Structure and Genetics
Winter of even-numbered years, 4(4-0) Introductory Genetics course. Interdepartmental with the departments of Botany and Plant Pathology, and Zoology. Mechanisms of mitosis and meiosis, classical and molecular genetics of chromosome structure, alterations in chromosome number and structure, transposable elements, meiotic drive.

844. Plant Organelle Genetics
Winter of odd-numbered years. 3(3-0) Approval of department. Interdepartmental with and administered by the Department of Botany and Plant Pathology.

See Romance and Classical Languages.
Courses

55. Plant Genetics and Molecular Biology
   Spring of even-numbered years. 3(3-0)
   Approval of department and a course in introductory genetics. Interdepartmental with the departments of Biochemistry and Botany and Plant Pathology. Administered by the Department of Botany and Plant Pathology.
   Recent advances in genetics and molecular biology of higher plants.

880. Special Problems
   Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 12 credits. Approval of instructor.
   Students with special interests and abilities may study published literature in a selected genetics topic or they may carry on research in the laboratory on a selected subject in collaboration with genetics faculty.

890. Selected Topics in Genetics
   Fall, Winter, Spring, Summer. 2 to 5 credits. May reenroll for a maximum of 9 credits. ZOL 441 and approval of instructor.
   Topics will be selected from molecular genetics, physiological genetics, population genetics, quantitative genetics, evolution, radiology and mutagenesis, microbial genetics, somatic cell genetics, behavioral genetics, and human genetics.

999. Doctoral Dissertation Research
   Fall, Winter, Spring, Summer. 3 to 12 credits. Majors.
   Research for the doctoral dissertation in genetics.

GEOGRAPHY GEO

College of Social Science

100. People, Location and Environment (S)
   Fall, Winter, Spring. 4(4-0) Not open to Geography majors.
   Relationships between people and environments, their spatial consequences and resulting regional structures across the earth’s surface.

122. The World of Maps
   Fall, Winter, Spring. 3(3-0)
   Discussion of types, practical applications, and sources of maps. Map reading skills.

150. Geography of Selected Current Problems
   Fall, Winter, Spring. 2(2-0)
   The geographic perspective is used to examine U.S. and world problems of major concern such as international conflicts, environment quality, spatial change, and economic development.

201. Geography of Culture
   Fall, Winter, Spring. 3(3-0)
   A systematic discussion of cultural geography, stressing cultural processes and relationships.

203. Resource Ecology
   (IDC 200.) Fall, Winter, Spring, Summer. 3(3-0) Interdepartmental with the departments of Fisheries and Wildlife, Forestry, Resource Development, and Zoology. Administered by the Department of Fisheries and Wildlife.
   Basic concepts of ecology which are the unifying basis for resource management, conservation policy and the analysis of environmental quality. Extensive use of guest lecturers.

204. World Regional Geography (S)
   Fall, Winter, Spring, Summer. 4(4-0)
   Human relationships with natural and cultural environments.

206. Physical Geography
   Fall, Winter, Spring, Summer. 4(4-0)
   Analysis of weather, climate, landforms, soils, water and biotic factors of the human environment, including its spatial, genetic, and functional interrelationships.

206L. Physical Geography Laboratory
   Fall, Winter, Spring. 1(0-2) GEO 206 or concurrently.
   Laboratory study of geographic aspects of map interpretation, aerial photographs, weather, climate, soils, landforms, and vegetation.

213. World Economic Geography
   Fall, Winter, Spring, Summer. 4(4-0)
   Emphasis on distribution of natural resources, industries and service activities, stressing factors of location and economic concepts of locational change.

223. Introduction to Cartography
   Fall, Spring. 4(2-4)
   Principles and techniques of constructing maps. Mapping methods and mapping decisions emphasized.

224. Remote Sensing: Airphoto Interpretation
   Fall, Winter, Spring. 4(2-4) Sophomores.
   Use of aerial photographs in the identification and interpretation of physical and cultural features of the terrestrial environment. Includes principles of photogrammetry, and stresses application and practice.

IDC. Introduction to Contemporary China
   For course description, see Interdisciplinary Courses.

IDC. Contemporary Japan
   For course description, see Interdisciplinary Courses.

300. North America
   Fall, Winter, Spring. 3(3-0)
   Human and physical geography of North America, north of the Mexican border.

309. Geography of Recreation
   Winter. 3(3-0)
   Natural and cultural factors influencing the use of space for recreation. Emphasis on recreation land use in the United States and current problems and conflicts.

310. Historical Geography of the United States
   Spring. 3(3-0)
   Reconstruction of geographies of the United States as they existed in the past.

315. South America
   Spring. 3(3-0) Sophomores or approval of department.
   Regional geography of South America with special attention to contemporary geographic problems.

316. Middle America
   Winter. 3(3-0) Sophomores or approval of department.
   Interpretation of physical and cultural environment of Mexico, Central America, and the West Indies. Special attention to contemporary geographic problems.

320. Geography of Population
   Fall. 3(3-0)
   Relationship of the size, composition, and distribution of population to geographic variations in the nature of places.

321. Africa
   Fall, Winter, Spring. 3(3-0) Sophomores or approval of department.
   Emphasis on continent south of Sahara: environments, peoples, problems, and potentials.

322. Africa: Contemporary Problems
   Spring. 3(3-0) Sophomores or approval of department.
   Major development problems examined from environmental, historical, economic, and social perspectives.

340. Western Europe
   Winter. 3(3-0) Sophomores or approval of department.
   Geographic analysis of physical and human character and resources of Western Europe (Scandinavia, British Isles, Benelux, Germany, France and Switzerland). Emphasis on major problems.

IDC. Contemporary South Asia
   For course description, see Interdisciplinary Courses.

342. Eastern and Southern Europe
   Spring. 3(3-0) Sophomores or approval of department.
   A geographical analysis of countries of Eastern and Southern Europe with emphasis on economic, political, social and ethnic problems.

351. Weather and Climate
   Fall, Winter, Spring. 3(3-0)
   Non-mathematical treatment of general weather processes and patterns, including surface and middle atmospheric (jet stream) features, with emphasis on the U.S.

360. The Soviet Union
   Fall, Winter, Spring. 3(3-0) Sophomores or approval of department.
   A geographical analysis of the Soviet Union and its inhabitants with emphasis on economic, social, political and ethnic problems.

364. Japan
   Fall. 3(3-0)
   Spatial patterns and processes of Japan’s physical and human geography, with emphasis on development problems of the nation, especially since 1890.

365. China
   Winter. 3(3-0)
   The physical and human geography of China and their relationship to the development problems of the country, with emphasis on the post-1949 period.

400H. Honors Work
   Fall, Winter, Spring. 1 to 16 credits. Approval of department.