Environmental and Urban Geography

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Administration:
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Program Codes:
20FS1238MA

The Department of Anthropology offers work leading to the Master of Arts in Environmental and Urban Geography. The program has two major areas of study:

1. environmental analysis and monitoring, environmental behavior, and environmental management; and
2. urban geography, including the environmental impact of urbanization, industrial and commercial development, transportation, residential area analysis, and urban and regional structures.

The department also offers work leading to master’s and doctoral degrees in Anthropology; consult the appropriate section of the catalog for more information.

Admission and Degree Requirements

• MA in Environmental and Urban Geography (http://catalog.uic.edu/gcat/colleges-schools/liberal-arts-sciences/env-urban-geog/ma)

Courses

GEOG 401. Topics in Regional Geography. 3 or 4 hours.
Geographic analysis of cultural and environmental systems of a political, economic, or climatic region of the world as defined by the instructor. Course Information: 3 undergraduate hours. 4 graduate hours. May be repeated to a maximum of 6 hours. Prerequisite(s): One upper-division course in each of the areas of skills, systematic and regional/urban geography.

GEOG 418. Ethnographic and Qualitative Research Methods. 3 or 4 hours.
Practical introduction to the techniques of social scientists for research in natural social settings: participant observation/non-participant observation, interviewing, use of documentary sources, etc. Course Information: Same as ANTH 418. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Junior standing or above.

GEOG 455. Quantitative Methods. 3 or 4 hours.
Introductory statistics course in statistical methods for anthropological problem-solving. Primary emphasis is on univariate and bivariate statistics, such as means standard deviations, correlation, chi square, t-tests, and simple regressions. Course Information: Same as ANTH 455. 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Prerequisite(s): Junior standing or above; and consent of the instructor.
GEOG 461. Location and Land Use. 3 or 4 hours.
Environmental, demographic, and institutional influences on land availability/use at global/local scales; geographies of production/use intensity; market/governmental controls over land/users. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): GEOG 361 or consent of the instructor.

GEOG 464. Geographic Modeling of Transportation Systems. 3 or 4 hours.
Discussions of the principles of spatial interaction, emphasizing passenger movements, commodity flows, the practicality of network analysis, and the impact of transportation facilities on land use and regional development. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): GEOG 100 and GEOG 161.

GEOG 469. Geographic Information Systems for Planning. 3 or 4 hours.
Applications of Geographic Information Systems to urban planning and policy making. Course Information: Same as UPP 461. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Junior standing or above; and consent of the instructor. Priority registration will be given to students admitted to a campus certificate program in Geospatial Analysis and Visualization, graduate students in Urban Planning and Policy, or students in the Master of Arts in Real Estate program.

GEOG 470. Educational Practice with Seminar I. 6 hours.
The first half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the department. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, and approval of the department. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

GEOG 471. Educational Practice with Seminar II. 6 hours.
The second half of a two-segment sequence of practice teaching, including seminar, to meet certification requirements for teaching in grades six through twelve. Course Information: Graduate credit only with approval of the department. Prerequisite(s): Good academic standing in a teacher education program, completion of 100 clock hours of pre-student-teaching field experiences, credit or concurrent registration in GEOG 470, and approval of the department. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

GEOG 475. Thematic Cartography. 4 hours.
Discussion and projects involving representation of real-world areal patterns; preservation of geodetic, locational and informational relationships; information generalization and reconstruction; computer software, and programs for computer assisted cartography. Course Information: Prerequisite(s): GEOG 276 or GEOG 278 or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

GEOG 477. Remote Sensing of the Environment. 4 hours.
Principles and practices of processing and interpretation of remotely sensed imagery including aerial photographs, radar and multispectral satellite images. Hands-on use of image-processing software. Course Information: Same as ANTH 477. Extensive computer use required. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

GEOG 481. Geographic Information Systems I. 4 hours.
Components and performance properties of geographic information systems. Geographic hierarchies and data structures. Problems and solutions in handling large geographic files. Geocoding. Course Information: Same as ANTH 481. Prerequisite(s): GEOG 100 and one from GEOG 278, GEOG 386, IDS 100; or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

GEOG 482. Geographic Information Systems II. 4 hours.
Application of raster (or grid) based geographic information systems to the spatial analysis of landscapes. Course Information: Same as ANTH 482. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture.

GEOG 483. Geographic Information Systems III. 4 hours.
Problems encountered in the analysis and portrayal of geographic data. Topics include taxonomy, regionalization, trend surface analysis, time series, markov probabilities, and computer cartographic procedures for displaying output from analytic procedures. Course Information: Same as ANTH 483. Prerequisite(s): GEOG 482 or ANTH 482 or consent of the instructor.

GEOG 484. Qualitative Methods in Geographic Research. 3 or 4 hours.
Use of qualitative methods in geographic research. Research design choices, data collection and analysis, writing. Applications in environmental and urban geography. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): GEOG 481 or geography major or minor or consent of instructor.

GEOG 486. Analysis of Geographic Patterns. 4 hours.
Analytical methods for evaluating arrangements of points, lines, and subareas across regions. Development of non-central measures of spatial association as an alternative to correlation analysis. Course Information: Prerequisite(s): GEOG 482 or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Laboratory and one Lecture-Discussion.

GEOG 491. History and Philosophy of Geography. 3 or 4 hours.
The philosophy of geography, its theory and research techniques. Analysis of bibliographic sources; criticism of papers on assigned topics. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Declared major in geography or consent of the instructor.

GEOG 496. Internship. 1-4 hours.
Professional field experience with an agency or organization in the private or public sector on projects related to the student’s area of specialization. Course Information: Same as ANTH 496. May be repeated to a maximum of 8 hours. Only 4 hours of credit may be applied toward the Minor in Geography. Prerequisite(s): Declared major in anthropology, minor in geography or full graduate standing in anthropology or geography and consent of the faculty advisor, head of the department, or the director of internship programs. Class Schedule Information: This course counts toward the limited number of independent study hours accepted toward the degree and the major.

GEOG 505. Seminar on the Geography of Colonialism and Neocolonialism. 3 hours.
Colonialism: historical, political and development geographies. Colonialism in the evolution of Europe and the Third World. Anti-colonial liberation movements. Theories of neocolonialism, underdevelopment, dependency. Course Information: May be repeated to a maximum of 6 hours. Prerequisite(s): GEOG 353 or GEOG 401 or consent of the instructor.
GEOG 510. Seminar in Social Organization. 4 hours.
Theoretical and substantive issue about how societies are organized.
Course Information: Same as ANTH 510. May be repeated to a maximum
of 12 hours.

GEOG 511. Topics in Urban Geography. 3 hours.
Critical analysis of selected theories, methods and problems of urban
and settlement geography. Course Information: May be repeated to a
maximum of 9 hours. Prerequisite(s): One 400-level course in urban,
economic, or transportation geography.

GEOG 530. Seminar in Physical Geography. 3 hours.
General topic to be defined by instructor; specific approved topic to be
defined, researched and discussed by student. Course Information: May
be repeated to a maximum of 6 hours. Prerequisite(s): GEOG 421 or
GEOG 431 or consent of the instructor.

GEOG 541. Seminar on Resource Management and Policy. 3 hours.
Social policy issues in the resolution of resource management conflicts.
Topics will vary. Course Information: May be repeated to a maximum
of 6 hours. Prerequisite(s): GEOG 441 or GEOG 461 or consent of the
instructor.

4 hours.
Mapping behavior examined cross-culturally, historically, and
developmentally. Ecological functions of mapping in macro-spatial
behavior. Course Information: Prerequisite(s): Consent of the instructor.

GEOG 575. Seminar in Cartography. 3 hours.
Review of recent developments in computer mapping and identification
of mapping needs. Research on conceptual and program solutions to
computer mapping problems. Course Information: May be repeated to
a maximum of 6 hours. Prerequisite(s): GEOG 475 and GEOG 481; or
consent of the instructor.

GEOG 589. Geographic Information Systems for Planning. 4 hours.
Applications of Geographic Information Systems to urban planning and
policy making. Course Information: Prerequisite(s): Graduate standing;
and approval of the department. Priority registration for graduate students
in Urban Planning and Policy, and graduate students admitted to the
campus certificate program in Geospatial Analysis and Visualization.

Research techniques, including problem definition, literature search, and
methodological design. Course Information: Prerequisite(s): GEOG 595.

GEOG 595. Departmental Seminar. 3 hours.
Review of contemporary geographic theory in academic research and
professional practice. Course Information: Satisfactory/Unsatisfactory
grading only. Prerequisite(s): Graduate standing in geography.

GEOG 596. Independent Study. 1-4 hours.
Independent research on approved topic not related to thesis preparation.
Course Information: May be repeated to a maximum of 6 hours. Students
may register in more than one section per term. Prerequisite(s): Consent
of faculty advisor and the instructor.

GEOG 598. Master’s Thesis Research. 0-16 hours.
Independent research on a topic approved for a graduate thesis. Course
Information: Satisfactory/Unsatisfactory grading only. May be repeated
to a maximum of 16 hours. Prerequisite(s): Consent of thesis research
advisor.