

DEPARTMENT OF GEOGRAPHY

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Students wishing to pursue the MA in geography must present two letters of recommendation and meet the admission standards of the Graduate School.

MA IN GEOGRAPHY

The master of arts in the geography thesis option requires a minimum of 30 s.h. of 5000- and 6000-level courses, with 18 s.h. at the 6000 level. The non-thesis/internship option requires 36 s.h., with 21 s.h. at the 6000 level. The master of arts in geography with a planning concentration offers only the non-thesis/internship option and requires a minimum of 36 s.h. at the 5000 and 6000 levels with a minimum of 21 s.h. at the 6000 level.

1. Core courses: GEOG 6100, 6110..... 6 s.h.
2. Research skills course 3 s.h.
 Choose a research skills/methods course related to the area of specialty and intended research:
 ANTH 5015; GEOG 6150, 6160; HIST 5960; or other course selected in consultation with advisor.
3. Concentration (Choose one area.)6-15 s.h.
Geography (6-15 s.h.):
 Thesis option: Choose a minimum of 6 s.h. electives at the 5000 and 6000 levels in the major field areas (physical, human, techniques). Students are encouraged to take at least one course outside their selected major area of study. Courses in other departments may be selected in consultation with student's advisor.
 Non-thesis/Internship option: Choose 12-15 s.h. electives at the 5000 and 6000 levels in the major field areas (physical, human, techniques). Students are encouraged to take at least one course outside their selected major area of study. Courses in other departments may be selected in consultation with student's advisor.
Planning (15 s.h.):
 Choose two (6 s.h.) from the following: PLAN 6000, 6010, 6020
 Choose one (3 s.h.) from the following: PLAN 6018, 6028, 6038
 Choose 6 s.h. PLAN electives at the 5000 and 6000 levels
Rural development (12-15 s.h.):
 GEOG 6350, 6355
 Choose a minimum of 6-9 s.h. of 5000- and 6000-level courses in geography and other departments in an area of specialization
4. Electives 9 s.h.
 Choose a minimum of 9 s.h. electives at the 5000 or 6000 level in the area of specialization (human, physical, techniques).
5. Thesis or non-thesis/internship option3-6 s.h.
Geography (3-6 s.h.):
 Thesis option: GEOG 7000 (3-6 s.h.) Students must pass the thesis defense.
 Non-thesis/internship option: GEOG 6801, 6802, and/or 6803. Students must complete internship for minimum of 3 s.h. or maximum of 6 s.h. Student must present professional report and pass report defense.
Planning (3 s.h.):
 Non-thesis/Internship option: Choose one (3 s.h.) from the following: GEOG 6801, 6802, 6803. Student must present professional report and pass report defense.
Rural development (3-6 s.h.):
 Thesis option: GEOG 7000 (3 s.h.) Students must pass the thesis defense.
 Non-thesis/internship option: GEOG 6801, 6802, and/or 6803. Students must complete internship for minimum of 3 s.h. or maximum of 6 s.h., present professional report, and pass report defense.

CERTIFICATE IN ECONOMIC DEVELOPMENT

The interdisciplinary graduate certificate in economic development provides students with opportunities to develop theoretical, analytical, and practical skills for both public and private sector careers in regional, economic, and community development. The certificate is open to students enrolled in graduate degree programs as well as nondegree applicants holding a baccalaureate

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degree. For those who complete the certificate as nondegree students, a maximum of 9 s.h. may be used in a subsequent degree program. Some degree programs will permit fewer. The program offers a flexible design to provide students from diverse disciplinary backgrounds with the opportunity to acquire a foundation in regional, economic, and community development while specializing in their respective areas of interest. The program requires completion of 15 s.h. in the respective areas as follows: ECON 5150; GEOG 6350; PADM 6123; SOCI 6400; 3 s.h. elective chosen in consultation with certificate coordinator(s). Students are encouraged to choose an elective in an area of specialization. A list of appropriate electives is available from the certificate coordinator(s).

GEOG: GEOGRAPHY

5220. Physical Geography Field Experience (3) 10 classroom hours of orientation and organization over a 2-week period followed by 3 weeks (15 working days) in a field location. P: GEOG 2200, 2250; or consent of instructor. Field-based introduction to basic aspects of physical geography research. Development of research questions, field techniques, use of modern instrumentation, and geographic analysis of field data.

5281, 5282, 5283. Selected Topics in Physical Geography (1,2,3) May be repeated for up to 6 s.h. P: Consent of instructor. Seminar on selected topic.

5393. Seminar in Human Geography (3) May be repeated for up to 6 s.h. P: Consent of instructor. Seminar on selected topic in economic-human geography.

5440. Techniques for Coastal Resource Analysis (3) P: GEOG 3410. Applies geographic information science to coastal resource management.

6100. History and Philosophy of Geography (3) Major paradigms constituting discipline of geography. Research frameworks within these paradigms.

6110. Research Design in Geography (3) For beginning graduate student. P: Graduate standing. Analysis of research procedures. Research objectives, literature searches, data collection design, data analysis techniques, and modes of presentation.

6150. Quantitative Methods in Geography (3) P: Introductory course in statistics or GEOG 3400. Advanced statistical methods related to geography.

6160. Field Geography (3) P: Dept consent. Advanced inquiry into development of field techniques and research methods in geography. Data collection, analysis, and writing from field sources.

6200. Research Methods in Physical Geography (3) Introduces field and lab methods typically used in research in geomorphology and other disciplines of physical geography.

6210. Advanced Fluvial and Hydrological Processes (3) Comprehensive examination of principles of surface water hydrology and fluvial geomorphology and their application to environmental problems.

6220. Advanced Coastal Geomorphology (3) Advanced examination of principles of coastal processes and geomorphology, and their application to environmental problems.

6230. Earth Surface Processes on the Coastal Plain (3) Detailed examination of the dominant geomorphic processes and sediment dynamics involved in the creation of landforms and the redistribution of sediments and contaminants in coastal plain environments. Emphasis on laboratory experimentation.

6291, 6292, 6293. Independent Study in Physical Geography (1,2,3) May be repeated for maximum of 6 s.h. May not count toward thesis research. P: Consent of instructor. Analysis of specific problem in physical geography under direct supervision of graduate faculty member.

6300. Seminar in Cultural Geography (3) For beginning graduate students. Comprehensive exposure to concepts, principles, and terminology of cultural geography. Problem solving and research through required papers.

6310. Seminar in Economic Geography (3) For beginning graduate students. Comprehensive exposure to concepts, principles, and terminology of economic geography. Problem solving and research through required papers.

- 6315. Advanced Geographic Images (3)** Social and cultural images of space, place, and environment as produced and consumed through various media and at a variety of scales.
- 6320. Feminist Theories of Economy (3)** Economy and development from feminist and geographical perspective.
- 6325. Advanced Population and Development (3)** Demographic issues and population policies in relation to resource use and economic development.
- 6330. Global Restructuring of Agro-Food Systems (3)** Contemporary trends in global restructuring of agro-food systems of industrialized and developing nations.
- 6335. Tourism Development (3)** Traditional and emerging forms of tourism development as they transform economic, social, cultural, and environmental landscapes inside and outside the US.
- 6340. Advanced Medical Geography (3)** Topics range from geographic patterns and processes of disease to locational aspects of health care delivery systems. GIS used to describe and analyze problems in medical geography. Students become acquainted with current research literature.
- 6345. Human Migration and Global Restructuring (3)** Causes and consequences of human migration processes associated with political and economic restructuring in different regions of the globe.
- 6350. Seminar in Rural Development (3)** Geographic theories and approaches used to study issues and problems facing rural areas.
- 6355. Rural Development Practicum (3)** Contemporary approaches to project design, implementation, management, and evaluation. Applies course in grant writing, problem solving, community analysis, participatory action research, group facilitation, and project evaluation.
- 6390. Political Geography (3)** Geographic factors in current national and world problems at advanced level.
- 6391, 6392, 6393. Independent Study in Human Geography (1,2,3)** May be repeated for maximum of 6 s.h. P: Consent of instructor. Analysis of specific problem in human geography under direct supervision of graduate faculty member.
- 6400. Seminar in Geographic Information and Analysis (3)** P: Consent of the instructor. Comprehensive exposure to concepts, principles, applications, and social implications of remote sensing, geographic information systems, and cartography.
- 6410. Advanced Cartography (3)** P: Undergraduate course work in digital cartographic methods or consent of instructor. Readings, discussion, and independent investigation of cartography topics. Analytic cartography, spatial analysis, and visualization techniques.
- 6420. Advanced Remote Sensing (3)** P: GEOG 3420 or consent of instructor. Interpretation of environmental phenomena recorded in digital data formats by remote sensing instruments. Advanced techniques of digital image processing for remotely sensed images.
- 6430. Advanced Geographic Information Systems (3)** P: GEOG 3430 or consent of instructor. Advanced topics.
- 6491, 6492, 6493. Independent Study in Geographic Techniques (1,2,3)** May be repeated for maximum of 6 s.h. P: Consent of instructor. Analysis of specific problem in geographic techniques under direct supervision of graduate faculty member.
- 6510. Meteorological Measurement Systems (3)** 2 lecture and 3 lab hours per week. Principles of meteorological instruments and measurement techniques; basic and advanced methods in data logging, processing, quality analysis and quality control; hands-on experience in labs, and practical training via independent field project.
- 6520. Atmosphere Turbulence (3)** Mechanisms and characterization of atmospheric turbulence in terms of fluid dynamics and mathematical methods. Modeling and measurement techniques in study of atmospheric turbulence.

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6530. Advanced Micrometeorology (3) Advanced measurement and modeling techniques and their use in micrometeorological research; estimation of exchange of momentum, mass and energy between Earth's surface and lowest atmosphere, and their representation in large-scale meteorological models.

6540. Advanced Coastal Storms (3) Advanced dynamics, analysis, and forecasting of extratropical and tropical storms. History of storms in the Carolinas and current mitigation plans.

6550. Synoptic Meteorology and Forecasting (3) (S) Analysis and forecasting of mid-latitude weather systems as characterized by large-scale dynamics. Includes advanced techniques of weather analysis, map interpretation, and satellite and radar analysis.

6560. Applied Urban Climatology (3) (F) Impact of urbanization upon atmospheric processes, including energetic balance, precipitation, atmospheric circulation, and pollution.

6801, 6802, 6803. Internship in Geography (1,2,3) 60 hours of work responsibility required per semester hour of credit. P: 18 s.h. of graduate work in GEOG; consent of director of geography must be obtained during semester prior to internship. Application of advanced geographic principles in industrial, governmental, or business setting.

7000. Thesis (3) May be repeated. May count maximum of 6 s.h.

7001. Thesis: Summer Research (1) May be repeated. No credit may count toward degree. Students conducting thesis research may only register for this course during the summer.

7300. Seminar in Geography of Heritage (3) Geographic perspective on the nature of heritage and its cultural, political, and economic uses.

GEOG Banked Courses

5009. Geography of Public and Private Park Land Use (2)

5020. Spatial Efficiency Analysis (3)

5022. Theories of Industrial Location (3)

5024. Regional Development (3)

5050, 5051. Nautical Charts and Navigation (3,0)

5084. Map Compilation and Design (3)

5098. Hydrology and Water Resources (3)

5191, 5192, 5193. Seminar in Regional Geography (1,2,3)

5200. Climatology: Regions and Applications (3)

5210. Terrain Analysis (3)

6010. Resources and Conservation (3)

6023. Seminar in Teaching Methods (3)

6191, 6192, 6193. Independent Study in Regional Geography (1,2,3)