
Master of Arts in Geography – (Geography; Planning)
Graduate Certificate in Planning
Graduate Minor in Geography
Department of Geography and Planning
College of Arts and Sciences

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<http://www.geo.appstate.edu/>

The Department of Geography and Planning offers the following graduate programs:

- Master of Arts degree in Geography, Thesis Option (237A/45.0701)
- Master of Arts degree in Geography, Non-Thesis Option (237*/45.0701) with concentrations in
 - General Geography (237B)
 - Planning (237C).
- Graduate Certificate in Planning (109A/45.0701)
- Graduate Minor in Geography (241/45.0701).

The graduate degree programs in Geography are designed to provide students with a broad range of academic and professional options. Foundations of the programs include preparing students for: 1) Ph.D. work in geography or planning, and 2) professional opportunities in applied geography and planning.

Courses in the following disciplines are offered through the Department of Geography:

- GHY: geography courses
- PLN: planning courses

PROGRAM OF STUDY FOR THE GRADUATE CERTIFICATE IN PLANNING (109A/45.0701)

Admission Requirements: Baccalaureate degree from an accredited college or university; complete application to the Cratis Williams Graduate School (<http://www.graduate.appstate.edu>), including resume, three letters of recommendation, official GRE general exam scores, official transcripts from all colleges attended, and cover letter (not to exceed two pages) stating reasons why applicant wishes to enter the program.

Basic Criteria for Consideration: (Undergraduate GPA X 400) + GRE Verbal + GRE Quantitative = 2000

Hours: 18 semester hours

Location: On and Off Campus; please contact the Office of Extension and Distance Education for information on off-campus cohort starting dates and locations. (<http://www.ext-dl.appstate.edu>).

Required Courses:

PLN	5400	Planning Theory and Process	3
PLN	5420	Human Settlements and Planning History	3
PLN	5431	Planning Methods and Techniques.....	3
PLN	5730	Land Use Controls, Planning Law, and Ethics.....	3
Additional 3 semester hours of planning electives			3
Choose one course from the following			3
	GHY 5812	Advanced GIS (3 s.h.)	
	GHY 5312	GIS Management (3.s.h.)	

TOTAL HOURS FOR THE CERTIFICATE 18

PROGRAM OF STUDY FOR THE GRADUATE MINOR IN GEOGRAPHY (241/45.0701)

A graduate (M.A.) minor in Geography consists of 9-12 semester hours selected from the courses listed below:

GHY	5000	Research Themes and Methods (3 s.h.)	
GHY	5100	Seminar in Physical Geography (3 s.h.)	
GHY	5110	Seminar in Spatial Analysis (3 s.h.)	
GHY	5130	Seminar in Human Geography (3 s.h.)	
GHY	5400	Planning Process (3 s.h.)	
TOTAL HOURS FOR THE MINOR			9-12

PROGRAM OF STUDY FOR THE MASTER OF ARTS IN GEOGRAPHY (Thesis Option) (Major Code: 237A/45.0701)

Admission Requirements: Baccalaureate degree* from an accredited college or university; complete application to the Cratis Williams Graduate School (<http://www.graduate.appstate.edu>), including resume, three letters of recommendation, official GRE general exam scores, official transcripts from all colleges attended, and cover letter (not to exceed two pages) stating reasons why applicant wishes to enter the program.

*Students entering the graduate program without a baccalaureate degree in geography are required to make up deficiencies in the areas of physical geography, human geography, and geographic techniques in consultation with the graduate committee.

Basic Criteria for Consideration: (Undergraduate GPA X 400) + GRE Verbal + GRE Quantitative = 2000

Hours: 30 semester hours

Location: On Campus

Required Courses:

GHY	5000	Research Themes and Methods	3
GHY	5100	Seminar in Physical Geography	3
GHY	5130	Seminar in Human Geography	3
GHY	5800	Advanced Quantitative and Qualitative Methods in Geography	3
GHY	5999	Thesis	4
REQUIRED HOURS			16
Electives (5000 level or above)			14
ELECTIVE HOURS			14
TOTAL HOURS FOR THE MA DEGREE			30

Thesis: Required

Proficiency: None required

Comprehensive: Required

Product of Learning: None required

PROGRAM OF STUDY FOR THE MASTER OF ARTS IN GEOGRAPHY (Non-Thesis Option) (Major Code: 237*/45.0701)

Admission Requirements: Baccalaureate degree* from an accredited college or university; complete application to the Cratis Williams Graduate School (<http://www.graduate.appstate.edu>), including resume, three letters of recommendation, official GRE general exam scores, official transcripts from all colleges attended, and cover letter (not to exceed two pages) stating reasons why applicant wishes to enter the program.

*Students entering the graduate program without a baccalaureate degree in geography are required to make up deficiencies in the areas of physical geography, human geography, and geographic techniques in consultation with the graduate committee.

Basic Criteria for Consideration: (Undergraduate GPA X 400) + GRE Verbal + GRE Quantitative = 2000

Hours: 36 semester hours

Location: On Campus

Required Courses:

GHY	5000	Research Themes and Methods.....	3
GHY	5100	Seminar in Physical Geography.....	3
GHY	5130	Seminar in Human Geography.....	3
GHY	5400	Planning Process.....	3
GHY	5800	Advanced Quantitative and Qualitative Methods in Geography.....	3
GHY	5900	*Internship in Geography.....	6

REQUIRED HOURS 21

Concentrations: (CHOOSE ONE)

GENERAL GEOGRAPHY CONCENTRATION (237B)

Electives (5000 level or above)..... 15

PLANNING CONCENTRATION (237C)

Planning Course Electives (5000 level or above)..... 9

Interdisciplinary Electives (5000 level or above)..... 6

CONCENTRATION HOURS 15

TOTAL HOURS FOR THE MA DEGREE 36

Thesis: None required

Proficiency: None required

Comprehensive: Required

Product of Learning: None required

*The Internship will not be initiated until the student has been admitted to candidacy for the graduate degree. The student will complete a research project dealing with the internship experience and an oral defense of the project in lieu of a thesis.

GRADUATE COURSES IN GEOGRAPHY (GHY)

GHY 5000. Research Themes and Methods/(3).F. Study of the historical, ongoing, and emerging research themes and methods in geography; the students will examine and practice the processes of organizing research, gathering and analyzing data, and presenting research results in written and oral formats. Required within the initial 12 hours of graduate study.

GHY 5100. Seminar in Physical Geography/(3).S. An exploration of special problems related to physical geography with emphasis placed on their impact on the human environment. Barring duplication of content, a student may repeat this course for credit.

GHY 5110. Seminar in Spatial Analysis/(3).On Demand. An exploration of unique problems related to one component of spatial analysis: cartography, remote sensing, quantitative/qualitative research methods, geographic information systems, or regional analysis. Barring duplication of content, a student may repeat this course for credit.

GHY 5130. Seminar in Human Geography/(3).S. An exploration of special problems related to human geography with emphasis placed on spatial patterns and processes. Barring duplication of content, a student may repeat this course for credit.

GHY 5240. Transportation Geography and Planning/(3).F. Students will apply urban planning principles, basic geographic theory and spatial statistics to policy and analysis issues of transportation and transportation planning. The course emphasizes transportation as a spatial phenomenon, and transportation planning as an activity and profession. [Dual-listed with GHY 4240.]

GHY 5301. Regional Geography/(3).SS. An in-depth examination of the world from a regional perspective with special attention given to conceptual topics such as world population growth, economic development and environmental problems.

GHY 5312. GIS Management/(3).S. The study of management issues, technological and management perspectives, and organizational settings necessary for developing a successful geographic information system - GIS can vary from a single-user workstation with a sole purpose to a complex multi-user, multi-department system, with different hardware and software environments, varied data requirements and standards for a variety of applications. These complexities and the manager's perspective cover a wide array of GIS related topics.

GHY 5400. Planning Theory and Process/(3).F. Foundations of community and regional planning, including linkages with planning theory and growth management, comprehensive planning steps, and how practicing planners use various planning aspects and applications to address contemporary urban and regional issues. (Same as PLN 5400.)

GHY 5500. Independent Study/(1-4).F;S.

GHY 5530-5549. Selected Topics/(1-4).On Demand.

GHY 5620. Synoptic and Regional Climatology/(3).F.Alternate years. This course focuses on atmospheric controls and processes at the synoptic scale. Basic meteorological elements and concepts such as jet streams, long-range forecasting, cyclogenesis, and vorticity are discussed. Local and regional climatic patterns and anomalies are examined with respect to the dynamics of the large-scale circulation features of the atmosphere. [Dual-listed with GHY 4620.]

GHY 5800. Advanced Quantitative and Qualitative Methods in Geography/(3).S. This course will examine quantitative and qualitative procedures commonly used in the analysis of geographic and planning research problems, including research in both human and physical geography. The course focus will be on applications of quantitative and qualitative procedures in research, but conceptual and theoretical aspects of all procedures will also be discussed. Students will apply quantitative and/or qualitative methods to a geographic topic and will report on the results in a professional quality paper. Prerequisite: GHY 3800 or the equivalent.

GHY 5810. Digital Image Processing/(3).F. Course focuses on acquisition of digital images, image processing, image enhancement techniques for interpretation, and applications of remote sensing technology. Lecture two hours, laboratory two hours. [Dual-listed with GHY 4810.]

GHY 5812. Advanced GIS/(3).F;S. GIS is a wide ranging topic encompassing five distinct functions within a total system context. These functions are: 1) data input, 2) data storage, 3) data management, 4) data manipulation and analysis, and 5) data output. Emphasis will be placed on the applications frequently found in geography and planning. This course is project oriented to give the student maximum experience in each of the functions of a GIS and to allow the student to associate the technical areas of GIS with "real world" scenarios. Lecture two hours, laboratory two hours. [Dual-listed with GHY 4812.]

GHY 5814. Principles of GeoComputation/(3).S. GeoComputation is spatial analysis with or without a geographic information system (GIS). The increasing power of computational environments enables the creation of new methods for analyzing geographic data. This course will include: an introduction to GeoComputational theory, GIS programming, and applications of GIS and environmental models. Lecture two hours, laboratory two hours. Prerequisite: GHY 3812 or permission of the instructor. [Dual-listed with GHY 4814.]

GHY 5820. Geographical Hydrology/(3).S. Study of the occurrence and movement of water on the earth, with a focus on applications of surface hydrology. Water movement through the hydrologic cycle, flood analysis, and water use/water policy are emphasized. [Dual-listed with GHY 4820.]

GHY 5850. Social Science Seminar/(3).On Demand. A review and evaluation of the literature of the individual social science disciplines, as well as social science in general, emphasizing contemporary contexts, philosophical underpinnings, theoretical concerns, and methodological convergence. Prerequisite: twelve semester hours of graduate work. (Same as CJ 5850/HIS 5850/PS 5850/SOC 5850.)

GHY 5900. Internship in Geography/(3-12).F;S. The internship emphasizes field work in the areas of locational analysis, environmental assessment and impact, and/or land use planning. For the Master of Arts (teacher licensure program) the internship involves teaching one or more geography courses in an appropriate setting. The type of internship, location of field experience, and sponsoring agency must be satisfactory to the student and to the department. A research paper is required. Graded on an S/U basis.

GHY 5989. Graduate Research/(1-9).F;S. This course is designed to provide access to University facilities for continuing graduate research at the master's and specialist's levels. Graded on an S/U basis. GHY 5989 does not count toward a degree.

GHY 5999. Thesis/(4).F;S.
Graded on an S/U basis.

GRADUATE COURSES IN COMMUNITY AND REGIONAL PLANNING (PLN)

PLN 5400. Planning Theory and Process/(3).F. Foundations of community and regional planning, including linkages with planning theory and growth management, comprehensive planning steps, and how practicing planners use various planning aspects and applications to address contemporary urban and regional issues. (Same as GHY 5400.)

PLN 5420. Human Settlements and Planning History/(3).On Demand. Foundations of community and regional planning relating to the growth and development of cities and historical aspects of planning. Examination of how design and form impact the built environment, to include prominent planners who have influenced planning over time. This course focuses on the American city, but some examples may be from European and Asian countries and colonial practices.

PLN 5425. Task-Oriented Group Facilitation Methods/(3).S. Learn how to maximize the collective power of groups, organizations, and communities by developing facilitation skills that help groups think, talk, and work together. Application opportunities using these skills include community development, organizational planning, education, government, and other occasions when people want to turn ideas into productive action and meaningful accomplishments. (Same as COM 5425.)

PLN 5431. Planning Methods and Techniques/ (3).On Demand. Foundations of community and regional planning relating to skills, knowledge, and abilities that practicing planners use to develop a better understanding of place. Scope of research includes components of plan-making (e.g., public opinion surveying; meeting facilitation; and demographic, economic, social, environmental, housing, land use, circulation, and community facilities studies).

PLN 5450. Planning for Sustainable Communities/(3).S. This course familiarizes students with the opportunities and challenges of sustainable development in the context of community experience and civic life in the U.S. Emphasis is placed on linking collective behaviors; the social, ecological, and economic impacts of those behaviors; and strategies for increasing sustainability at the community scale. Students will develop a project focused on an issue of sustainability. [Dual-listed with PLN 4450.]

PLN 5460. Environmental Policy and Planning/(3). SS.On Demand. An in-depth look at issues of public participation and involvement, intergovernmental relations, and the tools and practices involved with environmental planning in the United States. [Dual-listed with PLN 4460.]

PLN 5470. Community Development/(3).F. A study of conventional and alternative strategies used by community development professionals, activists, and community members in urban and rural settings. Community development issues

will be discussed, including poverty and race, affordable housing, economic revitalization, environmental justice, and public participation in planning. [Dual-listed with PLN 4470.]

PLN 5730. Land Use Controls, Planning Law, and Ethics/(3).On Demand. Foundations of community and regional planning relating to plan implementation, including a spectrum of land use controls, the legal and constitutional framework of land use controls, and planning ethics

PLN 5530-5549. Selected Topics/(1-4).On Demand.

PLN 5700. Project Management/(3).S. Simulated experiences involving complex procedures and methods pertinent to planning projects. The student will have opportunities to develop and utilize various project management skills and abilities, to include preparation of a community development proposal for external funding. Open to geography, planning, political science, real estate and leisure studies majors; others by permission of the instructor. Lecture two hours, laboratory two hours. [Dual-listed with PLN 4700.]