GEOGRAPHY AND ENVIRONMENTAL PLANNING M.A.

Degree: Master of Arts
https://www.towson.edu/cla/departments/geography/gradgeography/

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The program prepares graduates for either doctoral programs or a variety of geographically oriented applied positions in private business and government agencies. The program develops a broad knowledge of physical and human geography as well as the ability to analyze and synthesize spatial data and information from a number of fields.

The Master of Arts in Geography and Environmental Planning has two options: Thesis and Non-Thesis.

Accelerated Bachelor's-Master's Program
Students may also earn an M.A. in Geography and Environmental Planning through the Department of Geography and Environmental Planning's accelerated bachelor's to master's program (http://catalog.towson.edu/undergraduate/liberal-arts/geography-environmental-planning/combined-bachelor-master-geography-environmental-planning). This program allows students to complete their undergraduate and graduate degrees in a shorter time frame.

All students enrolled in the graduate program must demonstrate proficiency in research. Students may choose a thesis or non-thesis option. All non-thesis students must complete a final research project.

Please see the Undergraduate Catalog for information on the accelerated bachelor's-master's program.

Admission Requirements

• A bachelor's degree from a regionally accredited college or university** with a minimum of 6 units in geography, with at least a 3.00 GPA in all geography courses, is required for full admission. Students without a background in geography may be admitted conditionally, with the requirement that they take the prerequisite courses in their first year.

• A minimum undergraduate GPA of 3.00 is required for full admission to the program, and 2.75 is required for conditional admission. All GPA calculations for admission are based upon the last 60 units of undergraduate and post-baccalaureate study.

Submit the online application (https://www.towson.edu/academics/graduate/admissions/apply) along with the following materials:

• Two letters of recommendation
• A short essay discussing career goals and how this program will help you attain them

Non-immigrant International Students
Program Enrollment: F-1 and J-1 students are required to be enrolled full-time. The majority of their classes must be in-person and on campus. See the list of programs that satisfy these requirements (https://www.towson.edu/academics/graduate/admissions/international/programs-complyingj1-f1-regulations.html), and contact the International Student and Scholars Office (https://www.towson.edu/academics/international/isso) with questions.

Admission Procedures: See additional information regarding Graduate Admission policies (https://www.towson.edu/academics/graduate/admissions/policies.html) and International Graduate Application (https://www.towson.edu/academics/graduate/admissions/international) online.

**See Exceptions to Policy in Graduate Admissions (https://www.towson.edu/academics/graduate/admissions/policies.html).

Degree Requirements

• All degree candidates must meet with their academic advisers to file intended programs of study. This should be done prior to, or during, the first term of course work. The program director is the initial adviser for all incoming students. The program can be amended in consultation with the adviser.

• Successful completion of statistics or qualitative methods, or an approved equivalent.

Thesis Option (minimum 36 units)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEOG 601</td>
<td>SEMINAR ON GEOGRAPHICAL PERSPECTIVES</td>
<td>3</td>
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<tr>
<td>GEOG 621</td>
<td>RESEARCH DESIGN</td>
<td>3</td>
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<td>Thesis</td>
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<td>GEOG 898 GEOGRAPHY THESIS</td>
<td>6</td>
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<td>Electives</td>
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<td>Total Units</td>
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Non-Thesis Option (minimum 36 units)

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<tr>
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<td>GEOG 621</td>
<td>RESEARCH DESIGN</td>
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<td>GEOG 797</td>
<td>RESEARCH</td>
<td>3</td>
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<td>Electives</td>
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<td>27</td>
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<tr>
<td>Total Units</td>
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<td>36</td>
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• For GEOG 797, students should work closely with a member of the graduate faculty on independent research and then present the paper to the graduate faculty. If the paper is judged unacceptable, the student may re-present the paper at a later date set by the faculty.
Students not completing their research paper in a single term should enroll in GEOG 799 until the research paper is complete.

1. To prepare graduates for a variety of geographically-oriented applied positions in private business and government agencies and for doctoral programs.
2. To provide a broad knowledge of physical and human geography.
3. To teach students to analyze and synthesize spatial data and information from a number of fields.
4. To teach students to perform independent research on current issues.

Courses

GEOG 502 ENERGY RESOURCE (3)
Spatial patterns of traditional and alternative forms of energy will be analyzed. The many facets of the energy problem will be analyzed including physical deposits, economic variables, public policy implication and geographical patterns. Prerequisite: 6 credits of geography or consent of instructor.

GEOG 503 SOILS AND VEGETATION (3)
A resource study of the world's soils and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisite: GEOG 101 and one of the following: CHEM 101, BIOL 110, BIOL 200/ BIOL 200L (BIOL 201) or BIOL 205.

GEOG 504 INTERPRETATION OF AERIAL PHOTOGRAPHS (3)
Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology and photogrammetry.

GEOG 505 CARTOGRAPHY AND GRAPHICS I (3)
Study in design, construction and effective application of maps and charts for analysis and publication; practical exercises in the use of cartographic tools, materials and techniques. Prerequisite: GEOG 232 or consent of instructor.

GEOG 510 HISTORICAL GEOGRAPHY OF URBANIZATION (3)
Spatial and temporal development of urbanization and urban morphology from the rise of civilization in the ancient Near East to the contemporary post-industrial city. The entire scope of urban functions is surveyed, with the emphasis on the city as a man-made environment. Prerequisite: 6 units of geography or consent of instructor.

GEOG 511 CULTURAL GEOGRAPHY (3)
Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. Prerequisite: 6 units of geography or consent of instructor.

GEOG 512 ECONOMIC GEOGRAPHY (3)
Designed to explain the location of economic activities through a series of principles and theories. Emphasis on the various sectors of the economy, transportation and economic development. Prerequisite: 6 credits of geography or consent of instructor (not open to students who have completed GEOG 231).

GEOG 515 CLIMATOLOGY (3)
Character, causes and distribution of climatic types. Emphasis upon world pattern. Students may be required to do fieldwork. Prerequisite: 6 credits of geography or consent of instructor.

GEOG 516 QUANTITATIVE METHODS IN GEOGRAPHY (3)
Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, aerial association and regionalization. Prerequisite: 6 units of geography, MATH 119 or consent of instructor.

GEOG 517 METEOROLOGY (3)
Examines the composition and structure of the atmosphere, thermodynamic processes, forces and related small and large scale motions, air masses, fronts, tropical cyclones, solar and terrestrial radiation, general circulation and weather forecasting. Field work may be required. Prerequisites: 6 units of natural science or geography or the equivalent.

GEOG 519 POLITICAL GEOGRAPHY (3)
Effect of political groupings upon human's use of the world and the influence of the geographic base upon political power. Prerequisite: 6 units of geography or consent of instructor.

GEOG 520 POPULATION GEOGRAPHY (3)
General population theory, data sources for population geographers and the processes of fertility, mortality and migration. Patterns of population growth and change viewed from both temporal and geographical perspectives. Prerequisite: 6 credits of geography or consent of instructor.

GEOG 522 URBAN SYSTEMS I (3)
Survey of the structure, functions, forms and development of urban units. Emphasis upon the locational features of social, economic and cultural phenomena; fieldwork required. Prerequisite: 6 credits of geography or consent of instructor.

GEOG 523 GIS APPLICATIONS (3)
Geographic information systems for solving real-world problems; vector-based GIS software, microcomputers for development of a GIS application. Prerequisite: Introduction to GIS or consent of instructor.

GEOG 526 FEMINIST GEOGRAPHIES (3)
Exploration of the intellectual foundations of the feminist critique; geographies of women and gender; influence of feminism across the discipline of geography. This course has been offered as a special topic; students who have earned credit for this course as a special topic will not receive additional credit for GEOG 526.

GEOG 527 OUTDOOR REC PLAN/MNGT (3)
A study of outdoor recreation in terms of relationships between people, land, and leisure. Emphasis on the principles of planning, designing and maintaining outdoor recreation areas and facilities.

GEOG 544 GEOGRAPHY OF SOUTH ASIA (3)
Survey of the physical and cultural geographies of Pakistan, India, Bangladesh, Nepal, Bhutan, Sri Lanka and the Maldives. Thematic and regional approaches applied in the study of the cultures, politics, environments, social structures, and economies of the South Asian Subcontinent. Emphasis on regional research project.

GEOG 551 GROWTH OF GEOGRAPHIC THOUGHT (3)
History, nature and methodology of geography as a discipline. Analysis of schools of geographic thought and critical evaluation of important geographic work. Prerequisite: 6 units of geography or consent of instructor.

GEOG 552 SEVERE AND HAZARDOUS WEATHER (3)
Examines the complexities and power of severe and hazardous weather, providing an understanding of the way events, such as thunderstorms, tornadoes, and hurricanes, develop and evolve within the atmosphere. Topics include the descriptions an dphysical explanations of the types of severe and hazardous weather along their societal an dpolitical implications. Prerequisite: GEOG 101, GEOL 357, or GEOG 377.
GEOG 553 COMPREHENSIVE PLANNING (3)
The integration of separate urban systems into the comprehensive design of an urban region. Special emphasis will be placed on neighborhood, community and town planning. Fieldwork may be required. Prerequisites: GEOG 391 and GEOG 392 or equivalent and consent of instructor.

GEOG 554 RETHINKING BRAZIL (3)
Regional analysis of Brazil: human and physical geography, historical perspectives, humanities, cultural geography, and critical thinking of Brazil in its role as regional and global participant. Perspectives on the problematization of national, racial, and regional identities, and of historical legacies upon Brazil today. Prerequisite: GEOG 102 or GEOG 105 or GEOG 109.

GEOG 557 STUDIES IN NATURAL HAZARDS (3)
The nature, frequency of occurrence and distribution of environmental hazards and their impact on humans. Prerequisite: 6 units of geography or consent of instructor.

GEOG 560 GEOGRAPHY OF THE UNITED STATES AND CANADA (3)
Physical and cultural landscapes of the United State and Canada including patterns of economic development of each region and their relationship to their environmental setting. Prerequisite: 6 units of geography or consent of instructor.

GEOG 561 GEOGRAPHY OF MARYLAND (3)
A geographical study of the Middle Atlantic region emphasizing Maryland in its megapolitan setting. Much attention will be given to the human and physical elements which have led to the prominence of this region. A supervised research paper will be an important part of this course. Prerequisite: 6 credits of geography or consent of instructor.

GEOG 562 GEOGRAPHY OF AFRICA (3)
A systematic and regional approach to the study of people and environment of Africa, south of the Sahara. Special focus is placed on the distribution of natural resources and the historical-political development of each country as important background for the understanding of current African affairs. Prerequisite: 6 units of geography or consent of instructor.

GEOG 563 THE SILK ROAD: THE GEOGRAPHIES OF CENTRAL EURASIA (3)
Central Asian geographies and histories in the contest of the extended Silk Road Region; its cultural identities. Political economies, and ideological struggles; the bonds and interactions of the emerging nations of Central Asia with Russia, the U.S., China, Turkey, and Iran. Prerequisites: Instructor permission.

GEOG 564 GEOGRAPHY OF EAST ASIA (3)
Regional studies of the physical and cultural foundations in China, Japan and Korea. Emphasis upon human and economic resources and role in world affairs. Prerequisite: 6 units of geography or consent of instructor.

GEOG 565 GEOGRAPHY OF THE MIDDLE EAST (3)
Analysis of Southwest Asia and North Africa, including major natural and cultural resources, related patterns of spatial organization, economic and political development and associated problems. Prerequisite: 6 units of geography or consent of instructor.

GEOG 566 GEOGRAPHY OF EUROPE (3)
Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development and cultural conflicts. Prerequisite: 6 units of geography or consent of instructor.

GEOG 567 GEOGRAPHY OF RUSSIA (3)
Diverse human and physical geographical aspects of Russian's complex historical and contemporary development and its relationships with its neighbors. The interrelationships between people and their environments; physical, social, economic, political, demographic and cultural are considered.

GEOG 568 GEOGRAPHY OF LATIN AMERICA (3)
Analysis of Latin America will be focusing on the interrelationships between physical and cultural elements which provide a diversity of human habitats throughout the region. Prerequisite: 6 units of geography or consent of instructor; may be repeated for a maximum of 6 units.

GEOG 557 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 567 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 568 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 569 THE TWO DOWN-UNDERS: GEOGRAPHIES OF AUSTRALIA AND AOTEAROA-NEW ZEALAND (3)
Analysis of the physical and cultural landscapes of Australia and Aotearoa/New Zealand, including patterns of settlement and economic development and the relationship of these patterns to their environmental settings. Emphasis on the historical background of these countries’ present landscapes. Prerequisites: 6 units of geography or permission of the instructor.

GEOG 570 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 571 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 572 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 573 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

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Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

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Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 578 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.
GEOG 579 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3)
Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: 6 units of geography or consent of instructor.

GEOG 582 GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6)
Supervised placement and research in selected public and private agencies at appropriate institutions. Prerequisite: Consent of chairperson and 6 units in geography. May be repeated for a maximum of 6 units (not open to students who have completed 6 credits in GEOG 479).

GEOG 583 FIELD GEOGRAPHY (2-6)
Practical laboratory experience in techniques in the collection and analysis of data by observations, measurement, mapping and photographic records. Such techniques are to be applied to selected geographic problems. Prerequisite: 6 units of geography or consent of instructor.

GEOG 584 TRAVEL AND STUDY (3-6)
Countries and topics to be selected by departments and instructors sponsoring the program. For complete information contact the chairperson of the department. Prerequisite: Consent of instructor; may be repeated for a maximum of 6 units.

GEOG 586 INDEPENDENT STUDY IN GEOGRAPHY (1-6)
Independent research, study or field experience under supervision of a member of the geography faculty. Designed for advanced students who wish to conduct independent investigation on aspects of geography which are of special interest or not covered in other courses. Registration arranged with department chairperson. Prerequisite: Advanced undergraduate standing with at least 18 credits in geography or graduate standing. May be repeated for a maximum of 6 credits.

GEOG 587 ENVIRONMENTAL IMPACT ANALYSIS (3)
The collection and analysis of physical, social, biological and economic information for the preparation of environmental impact statements (EIS). Prerequisite: 6 hours of geography or consent of instructor.

GEOG 601 SEMINAR ON GEOGRAPHICAL PERSPECTIVES (3)
Study of major subfields of geography as they have emerged in the 20th century and their differing viewpoints. Prerequisite: Graduate standing.

GEOG 621 RESEARCH DESIGN (3)
Reviewing the literature, formulating a research question, and finding appropriate methodology to generate data and answer the research question.

GEOG 622 PROBLEMS AND ANALYSIS IN GEOGRAPHY (3)
Application of research methods to the analysis of geographic problems. Prerequisite: GEOG 621 or equivalent graduate research methods course.

GEOG 625 PLANNING FOR A SUSTAINABLE REGION (3)
The theory and practice of comprehensive regional planning as well as methods for assurance sustainability. Prerequisite: Graduate standing.

GEOG 626 GIS DATABASE DESIGN (3)
Introduction to Geographic Information Science (GIS) database design. Prerequisites: GEOG 221 and GEOG 232, or consent of instructor.

GEOG 631 REMOTE SENSING (3)
Remote-sensing systems. Interpretation and use of the data products, with emphasis on Land Satellite Imagery (Landsat). Prerequisite: Consent of department.

GEOG 651 SEMINAR IN APPLIED-POPULATION GEOGRAPHY (3)
Focus on obtaining, interpreting and using population data for applied purposes. Prerequisite: Consent of instructor.

GEOG 652 SEMINAR IN MEDICAL GEOGRAPHY (3)
Medical geographic principles and techniques applied to the study of health issues in contemporary society. Emphasis on tools, methodology and problem-solving situations. Prerequisite: GEOG 375 or consent of instructor.

GEOG 653 ADVANCED TOPICS ON ENVIRONMENTAL HAZARDS (3)
Selected advanced topics on the human dimensions of environmental hazards and disasters. Topics may include social vulnerability, hazard assessment, mitigation planning and emergency management, hazards and development, gender issues, and GIS applications. May be repeated under a different subtitle for a maximum of 9 units. No more than 9 units may be applied toward the degree. Prerequisites: Graduate standing and consent of the instructor.

GEOG 654 CLIMATE CHANGE: SCIENCE TO POLICY (3)
A survey of past, current, and future climate change. Emphasis on Earth's radiation balance, causes of climate change, observed and predicted signals of climate change, and impacts and mitigation of climate change. Prerequisites: 6 units of geography or consent of the instructor.

GEOG 661 STUDIES IN ECONOMIC GEOGRAPHY (3)
The study of selected geographical topics dealing with spatial distributions of economic activities. Topics will be announced. Prerequisite: Consent of department (no more than 6 credits may be applied toward a degree).

GEOG 664 PYTHON SCRIPTING FOR ARCGIS (3)
Python programming and scripting techniques for GIS. Fundamentals of Python, basic geoprocessing in GIS, key modules of ArcPy for mapping and spatial analysis, design of script tools for ArcGIS. This course has been offered as a special topic; students who have earned credit for this course as a special topic will not receive additional credit for GEOG 664. Prerequisites: GEOG 232 or equivalent skills; GEOG 414 or GEOG 523 recommended.

GEOG 665 ADVANCED TECHNIQUES IN GIS (3)
Project-based learning within the spatial framework of GIS. Emphasis on advanced GIS techniques for spatial analysis and on quantifying geographic patterns and relationships. Prerequisite: GEOG 232.

GEOG 670 SPECIAL TOPICS (3)
Selected geographical topics. Topics will be announced. No more than 6 units may be applied toward a degree.

GEOG 671 SPECIAL TOPICS IN PHYSICAL GEOGRAPHY (3)
Selected geographical topics dealing with physical landscape phenomena, especially with regard to distribution, relationships and significance to mankind. Topics will be announced. Prerequisite: consent of department (no more than 6 units may be applied toward a degree).

GEOG 672 SPECIAL TOPICS IN HUMAN GEOGRAPHY (3)
Topics in human geography. Varies each semester. Prerequisite: Consent of department.

GEOG 673 HUMAN-ENVIRONMENTAL INTERACTIONS SPECIAL TOPICS (3)
Topics in human-environmental interactions. Varies each semester. Prerequisite: consent of department.

GEOG 681 SEMINAR IN POLITICAL GEOGRAPHY (2-6)
Special subjects dealing with geography of international politics, e.g., boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than 6 units may be applied toward a degree. Prerequisite: Consent of department.
GEOG 683 SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3)
Individual research on a selected environmental problem in Maryland.
Prerequisite: Consent of department.

GEOG 685 DIRECTED READING IN GEOGRAPHY (3)
Independent reading in geography or related disciplines. Students must meet with a faculty advisor to draft a syllabus that outlines the purpose of the course, a plan of study, and specific learning outcomes of the course. The plan of study must require a minimum of 45 hours of work for each credit hour and regularly scheduled meetings to report progress, review work, and engage in reflective analysis about the course topic. The syllabus also must include a timeline for completion of learning assignments, criteria for grading them, and a bibliography or other relevant sources for investigating the topic. Prerequisite: consent of instructor.

GEOG 691 URBAN GEOGRAPHY STUDIES (2-6)
Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis; topics to be announced. No more than 6 units may be applied toward a degree. Prerequisite: consent of department.

GEOG 696 INDEPENDENT STUDY IN GEOGRAPHY (1-6)
Independent research, study or field experience under supervision of a member of the geography faculty. Designed for advanced students who wish to conduct independent investigation on aspects of geography which are of special interest or not covered in other courses. May be repeated for a maximum of 6 units. Prerequisite: consent of graduate director.

GEOG 701 LAND USE STUDIES (2-6)
Selected problems of urban, rural and rural-urban landscapes, which consider and account for geographic differences in land utilization; topics to be announced. Prerequisite: Consent of department (no more than 6 units may be applied toward a degree).

GEOG 771 SEMINAR IN REGIONAL GEOGRAPHY (2-6)
Description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions; seminar topics will be announced. Prerequisite: Consent of department (no more than 6 units may be applied toward a degree).

GEOG 796 INTERNSHIP IN GLOBAL SKILLS (3-6)
Internship with government or non-governmental organization, work to be concerned with issues of international scope. Prerequisite: admission to Global Skills accelerated MA program. GEOG 621 S/U grading.

GEOG 797 RESEARCH (3)
Investigation of problem or problems based upon field and library study, which will contribute to geographical knowledge. Graded S/U. Prerequisite: consent of department.

GEOG 799 RESEARCH PROJECT CONTINUUM (1)
One unit taken to maintain enrollment while completing research project begun in GEOG 797. Graded S/U. Prerequisites: previous enrollment in GEOG 797; department consent required.

GEOG 897 GEOGRAPHY THESIS (6)
Thesis credit while working on an approved thesis. Six units taken over two semesters.

GEOG 898 GEOGRAPHY THESIS (3)
Thesis credit while working on approved thesis: three units taken over two semesters for a total of six units. S/U Grading.

GEOG 899 THESIS CONTINUUM (1)
One unit taken to maintain enrollment while completing thesis.