

students must pass this course with a C or better. Prerequisite: At least two courses beyond the 322 level and junior or senior standing. Offered fall semester.

**SPN 481. INTERNSHIP 1-4 sh**

This course provides students with practical experience using Spanish in a professional setting and may include internships in teaching, social service, government service, business, etc., in the U.S. or abroad. Prerequisite: at least one course above the SPN 222 level and departmental approval.

**SPN 491. INDEPENDENT STUDY 2-4 sh**

## General Studies

*Director: Professor Warman*

The General Studies Program gives breadth as well as depth to a college education. It provides students with opportunities to see the broad view of human civilization, experience great ideas and art and learn the science and math skills without which no contemporary leader or individual can be without.

Through training in writing and other communication skills, as well as in learning to work independently, to think critically and constructively, to handle quantitative data, to respect cultures worldwide and to develop habits of responsible leadership, this program develops the whole person. The General Studies program is a major focus of a college career from beginning to end — challenging students, preparing them for both leadership and independent thought and, most of all, deepening and enriching their lives.

**GST 110. THE GLOBAL EXPERIENCE 4 sh**

This first-year seminar examines public responsibility in a global context. It explores some of the implications created by cultural and natural diversity and the possibilities for human communication and cooperation within this diversity. The course emphasizes student and faculty creativity through active and collaborative learning; the seminar is writing intensive. First-year students only. Offered fall and spring.

**GST 281. THE LIBERAL ARTS FORUM 2 sh**

Students will work with the Forum, a student-run and SGA-funded organization, to select speakers, host their visits and prepare for conversations with them through reading, writing papers, making presentations and joining discussions. Offered fall.

**GST 282. THE LIBERAL ARTS FORUM 2 sh**

See description for GST 281. Offered spring.

**GST 300-499. ADVANCED INTERDISCIPLINARY SEMINARS**

These seminars are the capstone of the General Studies Program. Students work with faculty to examine an issue or topic from multiple viewpoints. The subjects of these seminars are chosen by individual faculty members and vary from semester to semester. More than 25 different topics are offered each academic year. The diverse topics reflect the expertise and interests of faculty from across the campus and allow students a wide range of choices. These courses require advanced critical thinking skills: students must weigh multiple opinions, evaluate theoretical and ethical positions and define and defend their own personal positions. Taken in the junior or senior year, these seminars are writing intensive, requiring students to write frequently and in a variety of ways. Prerequisite: successful completion of sophomore assessment.

**Selected recent seminars**

These topics may, or may not, be offered in the future.

**GST 338. AMERICAN ADOLESCENCE****4 sh**

This interdisciplinary seminar explores the male and female experience of coming of age in America. We will study major psychological and sociological theories of adolescence and examine how the transition from childhood to adult life is represented in literature and film. Counts toward the Women's Studies/Gender Studies minor.

**GST 346. CHILDBIRTH****4 sh**

This course will provide students with the opportunity to explore the topic of childbirth from a personal, biomedical, psychosocial, cultural and historical perspective. Students will write a scholarly paper and work in teams to research particular areas related to childbirth. Counts toward the Women's Studies/Gender Studies minor.

**GST 348. LIFE STORIES****4 sh**

This course helps students identify the "life stories" they are living. It draws on literary, psychological, religious and philosophical resources. Daily writing assignments from Sam Keen's *Your Mythic Journey* will culminate in a personal story which remembers the past, reflects on the present, envisions a future and clarifies personal beliefs and values. Contemporary films such as *A River Runs Through It* and conversations with community partners will serve as additional catalysts for writing one's story.

**GST 365. QUEST FOR WHOLENESS****4 sh**

This course is a two-semester mentorship which meets once a week to create a space where learning and life can be integrated from the perspective of the humanities. The work of the year concentrates on the professional and personal, on work and relationships, on inner development and service to others. The inquiry touches all seven domains of life: personal, interpersonal, familial, institutional, cultural, planetary and the encompassing sphere of mystery.

**GST 369. MEN AND MASCULINITY****4 sh**

This course will take an in-depth look at how various cultures (Western and non-Western) have defined masculinity. Sources of investigation will include literature, the media and social institutions such as the family, religion, politics, leisure and others. The course will explore how men conceptualize their bodies and spirits, and how they practice relationships with other men, women, parents and progeny. Counts toward the Women's Studies/Gender Studies minor.

**GST 384. THE KENNEDY ASSASSINATION AND FILM****4 sh**

This course will explore the details of the assassination of President John F. Kennedy and the way it has been presented in film. Special emphasis will be placed on the study of the assassination as a film genre and any residual effects on the world of motion pictures.

**GST 401. LATINOS IN THE U.S.****4 sh**

This course is conducted in Spanish. The diversity of the culture, history and social, economic and political situation of the Latino population in the United States is studied through literature, film, music, current articles on the subject and direct contact with the population when possible. Readings will be assigned in Spanish and English. This course continues to develop students' language skills toward the proficiency goals required of all majors. Prerequisite: successful completion of SPN 310 or equivalent or permission of instructor. Cross-listed with SPN 335.

**GST 420. SCIENCE & RELIGION: BRIDGING THE GAP****4 sh**

This seminar is an exploration of the complex and fascinating interplay of these two ways of knowing. We will study the fundamental uncertainties that form borders to the reach of science and seek to build bridges to the realms of religious experience.

**EXPERIENTIAL LEARNING**

**1 unit**

The Experiential Learning Requirement (ELR) asks students to practice close observation of the world around them and to reflect insightfully on those observations. Exposure to diversity helps students see the interrelationships between academic studies and other experiences. The requirement may be met through one of the following ways: (1) field-based courses: study abroad, internships/co-ops, practicums and student teaching; (2) independent research conducted under the direction of a professor; (3) 40 hours of pre-approved service/volunteer activities (see Kernodle Center for Service Learning); (4) 40 hours of pre-approved leadership activities (see Leadership Development Office); and (5) 40 hours of pre-approved individualized learning activities (see Career Center).

**Geographic Information Systems**

*Coordinator: Assistant Professor Xiao*

*Associate Professors: H. Frontani, MacFall, Morgan, Powell*

*Senior Lecturer: Kleckner*

The Geographic Information Systems minor is designed to prepare students with the basic training necessary to enter the rapidly expanding field of geographic information science (GIS). Employment opportunities are limitless for students who are proficient with this interdisciplinary tool. Recently, the US Department of Labor has listed GIS as one of the three most important and evolving fields. Well-qualified GIS specialists are sought in the areas of business disaster mitigation, economics, education, emergency management, environmental study, homeland security, law enforcement, physical sciences, political campaign management, public policy research and analysis, transportation and urban development and planning. The minor is designed to provide students with basic knowledge and skills in GIS, and to explore application of these skills in courses selected from a wide variety of disciplines. Students are given hands-on experience with state of the art computer programs and software.

This minor includes core courses from the Computing Sciences, History & Geography, Political Science & Public Administration Departments and the Environmental Studies program. There are two components to the curriculum: a set of core courses required of all students enrolled in the program and a set of selective courses that permit exploration of more advanced themes in GIS and/or development of individual research projects or internships in GIS.

**A minor in Geographic Information Systems** requires the following courses:

ENS/GEO 350	Introduction to Geographic Information Systems	4 sh
CIS 113	Introduction to Database Systems	2 sh
CIS 216	Programming in a Visual Environment	4 sh
GEO 355	Introduction to Cartography	2 sh
GEO 356	Introduction to Remote Sensing	2 sh
GIS 460	Advanced GIS	4 sh
One discipline-specific course that includes a GIS component from:		4 sh
GEO 121	Introduction to Physical Geography	
ENS111/113	Introduction to Environmental Science	
PUB 334	GIS Applications for Administration and Planning	

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**Total** **22 sh**

**GIS 460. ADVANCED GIS****4 sh**

This advanced-level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisites: GEO 350, GEO 356.

**Geography**

*Coordinator: Associate Professor H. Frontani*  
*Assistant Professor: Honglin Xiao*

The geography program offers a minor in Geography. Geography explores the dimensions of space. How does location affect societies, economics, politics, culture and ecosystems? How do we analyze, describe and construct boundaries, both natural and human, which we then impose on the physical and intellectual worlds we live in? The study of geography is much more than maps. It includes study of both the natural world and the varied patterns of human life on both the macro and micro scales.

Graduates with training in geography are sought as *Geographic Information Systems Specialists* to work with GIS computer mapping software and related technology for government at the local, state or federal level as well as for a wide variety of businesses and corporations; *Regional Specialists* to work for the Central Intelligence Agency, Foreign Service, Peace Corps or community activist organizations; *Business, Economist and Population Geographers* to work for insurance companies, in real estate, for federal agencies such as the Census Bureau or to work in market-oriented businesses; *Environment and Recreation Specialists* to work for botanical gardens, the U.S. Forest Service, the U.S. Park Service or parks and recreational agencies; and *Teachers and Map Librarians* to work at elementary or secondary schools or at universities.

Several geography courses count towards area concentrations in the International Studies major and the Society and Environment concentration in the Environmental Studies major. Our GIS lab offers opportunities for hands-on learning and to obtain the latest computer mapping and spatial analysis skills. Gamma Theta Upsilon, the International Honor Society in Geography, has a campus chapter.

**A minor in Geography** requires the following courses:

GEO	121	Introduction to Physical Geography	4 sh
GEO	131	The World's Regions	4 sh
One course from:			4 sh
ENS 111/113 Introduction to Environmental Science and Lab			
PHY 103 Introduction to Geology			
POL 141 International Relations <b>or</b>			
Any 200-level geography course			
Eight semester hours of GEO elective at 300-400 level			8 sh
<b>TOTAL</b>			<b>20 sh</b>

**GEO 121. INTRODUCTION TO PHYSICAL GEOGRAPHY****4 sh**

Students will examine the processes which control the spatial distribution of climate, vegetation, soils and landforms. Topics include earth-sun geometry, global energy balance,

hydrology, tectonics weathering and mass wasting, climatic classification and climatographs, arid land and coastal and fluvial geomorphology. Focus will be on the Earth as the home of humans and the impact of humans on their environments.

**GEO 131. THE WORLD'S REGIONS 4 sh**

This survey of the regions of the world emphasizes place names and environmental and human characteristics which provide both the common traits and the distinctive characteristics of different places. Students analyze change, problems, potentials and alternative futures and use traditional and electronic data sources, atlases and methods of data presentation. Offered fall and spring.

**GEO 310. DEVELOPMENT AND THE ENVIRONMENT IN LATIN AMERICA, AFRICA AND ASIA 4 sh**

This course is concerned with environmental issues primarily in “developing” countries. This course will provide a forum for discussing and analyzing the geopolitics of international environmental conservation programs often devised in wealthier countries but applied in the “third world” as well as the social and environmental consequences of large-scale and small-scale development projects.

**GEO 320. AFRICA'S PEOPLE AND ENVIRONMENTS 4 sh**

This course surveys the physical, cultural and political-economic geography of Africa with an emphasis on human-environment relationships. Important themes include the diversity of people (ethnicity, gender and religion), social unrest, refugees, AIDS, drought and famine, urbanization, endangered species, wildlife conservation and parks. Students may participate in an experiential learning project. Counts toward a minor in African/African American Studies.

**GEO 345. GLOBAL ENVIRONMENTAL CHANGE 4 sh**

This course explores the physical and human geographical aspects of global environmental change, focusing on the effects of past climatic changes upon present landscapes, historic short-term fluctuations in temperature and precipitation, possible explanations for climatic change over time, the impact of human action on the Earth and its environmental systems, and the projection of future environmental changes. This course will also seek to provide students with an understanding of the latest scientific investigations and technology in environmental studies.

**GEO 350. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS 4 sh**

In this course, the student will be introduced to the concept of visualizing, exploring and analyzing data geographically. The student will obtain hands-on experience of display, analysis and presentation of mapping functions using the latest ArcGIS software. Assignments will be geared toward environmental management and decision making. GEO 350 is cross-listed with ENS 350. Offered in the fall.

**GEO 355. INTRODUCTION TO CARTOGRAPHY 2 sh**

This course serves as an introduction to the art and science of cartography, covering its history, basic elements of maps, map projections, scales and generalization, measurements from maps, topographic features, qualitative and quantitative information, basic surveying techniques, the elements of map design and the presentation, compilation and production of maps using a variety of different mapmaking techniques and technologies.

**GEO 356. INTRODUCTION TO REMOTE SENSING 2 sh**

This course provides an introduction to the basic concepts and processes of remote sensing, covering the principles of electromagnetic radiation and its interaction with the atmosphere and earth surface, basic photogrammetry, aerial photographs and satellite data interpretation, and digital image processing. Students will be exposed to remote sensing theory and hands-on exercises involving satellite data using the industry standard computer programs.

<b>GEO 360.</b>	<b>ADVANCED GIS</b>	<b>4 sh</b>
<p>This advanced level course in Geographic Information Systems (GIS) will build on the techniques learned in ENS/GEO 350 (Introduction to Geographic Information Systems) by exposing students to more advanced methods in developing and utilizing GIS data. It is designed primarily to provide students with an in-depth understanding of GIS applications, the theoretical/conceptual side of algorithms in GIS software and GIS research trends. Prerequisite: GEO 350, GEO 356 or permission of instructor.</p>		
<b>GEO 481.</b>	<b>INTERNSHIP IN GEOGRAPHY</b>	<b>1-4 sh</b>
<p>Internship is limited to four semester hours credit toward geography minor. Prerequisites: GEO 121, 131 and permission of instructor.</p>		
<b>GEO 491.</b>	<b>INDEPENDENT STUDY</b>	<b>1-4 sh</b>
<b>GEO 499.</b>	<b>INDEPENDENT RESEARCH</b>	<b>1-4 sh</b>
<p>Students engage in independent research projects related to the field of geography in conjunction with a faculty mentor. Prerequisites: junior or senior status and geography program approval.</p>		

## History

*Chair, Department of History: Professor Bissett*

*Professors: Crowe, Digre, Ellis, Festle, Midgette, G. Troxler*

*Associate Professor: J. O. Brown*

*Assistant Professors: Carignan, Chang, Clare, Irons, Nemicik*

*Adjunct: Cockrell*

The study of history centers on exploration of various economic, social, political, military and religious forces that have transformed the face of the world. It combines analytical thinking and writing with a detailed grasp of the many influences that have brought about historical change.

History is a discipline that explores the dynamics of change from humanistic and social scientific perspectives. Because of the breadth and depth of historical investigation, students who choose to major or minor in history at Elon University find themselves well prepared for careers that require interaction with people and the ability to write and think analytically.

**A major in History** requires the following courses:

HST	111	Europe and the Mediterranean World to 1500	4 sh
HST	112	Europe and the Mediterranean World since 1500	4 sh
HST	301	Research Methods	4 sh
Choose one course from:			4 sh
HST	121	United States History through 1865	
HST	122	United States History since 1865	
HST	123	United States and North Carolina since 1865	
Twenty-four hours history electives, 16 of which must be at the 300-400 level:			24 sh
U.S. History (8 sh)			
non-U.S. History (8 sh)			
other electives (8 sh)			
One history seminar course including completion of a senior thesis			4 sh
<b>TOTAL</b>			<b>44 sh</b>