GEOGRAPHY (GEOG)

GEOG 103 Our Dynamic Planet 3 Hours
Introduction to the spatial dimension of Earth's dynamic systems and how they affect people. These include the atmosphere, hydrosphere, and lithosphere. Colonnade/Statewide General Education Code E-NS | NS
Equivalent(s): GEDL 103
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; winter 2021; spring 2021; summer 2021; fall 2021

GEOG 110 World Regional Geography 3 Hours
A general survey of the political, social, and ecological systems of the world. The course is concerned with the complexity and diversity of world peoples and cultures. Colonnade/Statewide General Education Code E-SB | SB
Recent Term(s) Offered: winter 2019; spring 2019; summer 2019; fall 2019; winter 2020; spring 2020; summer 2020; fall 2020; winter 2021; spring 2021; summer 2021; fall 2021

GEOG 175 University Experience-Geography 2 Hours
Transition to university experience. Topics include study skills, critical thinking skills, library education, exploration of majors and careers, degree programs, campus resources, and personal development. Special attention is given to educational requirements, careers and resources in the geosciences. Note: For beginning college freshmen or transfer students with fewer than 24 semester hours of credit.
Restriction(s): Students with a semester level of Junior, Sophomore or Senior may not enroll.
Recent Term(s) Offered: fall 2019; fall 2020; fall 2021

GEOG 196 Phys Geog Recitation Lab 1 Hour
The physical geography recitation lab is designed to support and enhance the lecture material through practical exercises and problem solving. Map analysis is stressed, as well as critical thinking related to current issues and events. No category D Lab credit.
Corequisite(s): GEOG 100
Recent Term(s) Offered: None

GEOG 198 Regional Geog Recitation Lab 1 Hour
The world regional geography recitation lab is designed to support the lecture material through practical exercises and problem solving. Map analysis is stressed, as well as critical thinking related to current issues and events.
Corequisite(s): GEOG 110
Recent Term(s) Offered: None

GEOG 200 Latin American Society: Past and Present 3 Hours
This course is a broad, interdisciplinary introduction to the study of Latin America, emphasizing regions, peoples, and cultures. Colonnade/Statewide General Education Code K-SC
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Equivalent(s): HIST 200, PS 200, SPAN 200, ANTH 200
Recent Term(s) Offered: fall 2019; fall 2020; fall 2021

GEOG 210 Environment and Ecological Policy 3 Hours
A survey of the geography, history, and current conditions of environmental policy and regulation development, particularly in the United States, with an emphasis on humans as an integral component of the natural environment.
Recent Term(s) Offered: fall 2019

GEOG 215 Environmental Science and Sustainability 4 Hours
A general understanding of how the environment functions, the complexity of human-environmental interactions, and the application of geoscience in solving environmental problems. Lab component provides practical experiences associated with the theories outlined in the course content. Colonnade/Statewide General Education Code E-NS, E-SL | NS
Course Fee: $10
Recent Term(s) Offered: spring 2019; fall 2019; spring 2020; fall 2020; spring 2021; summer 2021; fall 2021

GEOG 225 Visualizing Geography 3 Hours
Visualizing Geography uses photographs, maps, and illustrations to explain the diversity of human societies, political systems, resources, and population movement across space and time, from local communities to our increasingly interconnected world. Colonnade/Statewide General Education Code K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2019; fall 2019; fall 2020; spring 2021

GEOG 226 Our Dangerous Planet 3 Hours
Introduction to how normal Earth processes concentrate their energies to create devastating impacts to humans and the built environment, with emphasis on survival techniques. Colonnade/Statewide General Education Code K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; spring 2021; fall 2021

GEOG 227 Our Vulnerable Planet 3 Hours
Explore how anthropogenic processes such as climate change, pollution, urban sprawl, deforestation, and desertification impact the people on Earth and its ecosystems. Does not count towards a major or minor in Geography if GEOG 280 is taken as part of the degree requirements. Colonnade/Statewide General Education Code K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; summer 2021

GEOG 275 Supervised Independent Research in Geography 1-3 Hours
(repeatable max of 6 hrs)
Restricted to freshmen, sophomores, and Gatton Academy students. A study of a selected problem under the supervision of a faculty member. Note: Permission of instructor required.
Prerequisite(s): METR 121
Recent Term(s) Offered: None

GEOG 276 Introduction to Research Methodology 1 Hour
To familiarize Ogden Research Scholars and other research oriented students with the fundamentals of choosing a research topic, performing a bibliographical search on a subject, classification of instruments, data taking, data reduction, professional ethics and other research oriented topics. The common points of research methodology in the different scientific areas will be accentuated. Examples will be drawn from the various disciplines. Use of computers will be emphasized. (Course does not count towards any major or minor.)
Recent Term(s) Offered: None
GEOG 300  Writing in the Geosciences  3 Hours  
Students conduct investigations into writing, reading, and research conventions in the geosciences and receive advanced instruction in planning, drafting, arranging, revising, and editing geoscience-specific essays and research projects.  
Colonnade/Statewide General Education Code F-W2 | WC  
Prerequisite(s): GEOG 110 and ENG 100 and (GEOG 103 or GEOG 103 or GEOG 111 or METR 121)  
Recent Term(s) Offered: spring 2019; fall 2019; spring 2020; fall 2020; spring 2021; fall 2021

GEOG 310  Global Hydrology  3 Hours  
An introduction to descriptive and quantitative hydrology. The hydrologic cycle precipitation, evaporation, and transpiration are covered under descriptive hydrology. Hydrographs, runoff relations, groundwater, and storage routing are covered under quantitative hydrology.  
Prerequisite(s): (GEOG 111 or GEOG 103 or GEOG 103)  
Equivalent(s): GEOL 310  
Recent Term(s) Offered: None

GEOG 328  Elements of Biogeography  3 Hours  
An examination of the spatial interaction and distribution of global biomes. This course examines, through examples at a variety of spatial and ecological scales, the development of human-induced and naturally-occurring biogeographical changes.  
Recent Term(s) Offered: None

GEOG 330  Introduction to Cultural Geography  3 Hours  
An overview of core concepts in cultural geography based on five major themes: region, mobility, globalization, nature-culture, and cultural landscape. Field trips required.  
Colonnade/Statewide General Education Code K-SC  
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status  
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; spring 2021; summer 2021; fall 2021

GEOG 344  Environmental Ethics  3 Hours  
Examination of how environmental ethics and philosophy determine the use and alteration of the natural environment by humans. Analysis of human responsibility towards protecting the environment, environmental decision-making, sustainable development, and respect for indigenous cultures.  
Prerequisite(s): GEOG 280  
Recent Term(s) Offered: None

GEOG 350  Economic Geography  3 Hours  
This course examines the functional interrelationships among economic activities and areas in the consumption, production, and exchange of goods and services.  
Colonnade/Statewide General Education Code SB  
Recent Term(s) Offered: spring 2019

GEOG 352  Geography of Kentucky  3 Hours  
No course description is available  
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; spring 2021; summer 2021; fall 2021

GEOG 360  Geography of North America  3 Hours  
Analysis of selected problems related to natural conditions, land use, settlement patterns, and regional structure of the United States and Canada.  
Colonnade/Statewide General Education Code SB  
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; summer 2020; fall 2020; spring 2021; summer 2021; fall 2021

GEOG 364  Geography of Europe  3 Hours  
A geographic analysis of Europe. Aspects of regional integration, with a focus on the European Community, and problems of economic growth in disadvantaged regions.  
Prerequisite(s): GEOG 110  
Recent Term(s) Offered: None

GEOG 376  Food, Culture, and Environment  3 Hours  
Exploration of geographical patterns of agricultural production and cuisine through the intersection of environment, technology and culture. Field trips required. Students will share the cost of several meals.  
Colonnade/Statewide General Education Code K-LG  
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status  
Course Fee: $15  
Recent Term(s) Offered: spring 2019; spring 2020

GEOG 380  Global Sustainability  3 Hours  
An introduction to the major themes and scientific principles of sustainability, with an emphasis on developing critical thinking skills.  
Colonnade/Statewide General Education Code K-LG  
Prerequisite(s): (GEOG 280 21 hours of Foundations and Explorations Courses, or junior status and (GEOG 280 with a minimum grade of C or GEOG 103 or GEOL 103)  
Recent Term(s) Offered: spring 2019; fall 2019; spring 2020; spring 2021

GEOG 385  Society, Resources, and Climate  3 Hours  
Discussion of global climate change from a societal and resource perspective; particularly how humans affect global climate change through population size, natural resource use, policy implementation, personal behavior, and societal norms, and vice versa.  
Colonnade/Statewide General Education Code K-SC  
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status and GEOG 110 and GEOG 280  
Equivalent(s): EDU 385  
Recent Term(s) Offered: None

GEOG 386  Geography of Potent Potables: Brewing, Distilling, and Wine Making  3 Hours  
Students explore the geographies of alcoholic beverages, including the patterns of production, distribution, and consumption of beer, distilled spirits, and wine, and associated cultural and environmental impacts. Breweries, wineries, and distilleries are important elements of many diverse cultural and economic landscapes and reflect local geographies and global influences. The role of location is explored as it relates to such topics as access to raw materials, terroir, the rise of craft breweries and distilleries, sustainability, and cultural attitudes toward the production and consumption of alcoholic beverages.  
Colonnade/Statewide General Education Code K-LG  
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status  
Recent Term(s) Offered: spring 2019; spring 2020; spring 2021

GEOG 391  Geoscience Data Analysis  4 Hours  
Statistical concepts and methods emphasizing their applications in a spatial context. Statistical description and hypothesis testing. Visualization analysis of spatial patterns and relationships. Note: Special permission of instructor may be required.  
Prerequisite(s): (MATH 183 or MATH 136) and GISC 316  
Course Fee: $50  
Recent Term(s) Offered: spring 2019; fall 2019; spring 2020; fall 2020; fall 2021
GEOG 420  Geomorphology  3 Hours (repeatable max of 4 hrs)
The study of the origin, history, and characteristics of landforms produced by fluvial, glacial, wind, and wave erosion and mass-wasting and ground water or by a combination of these, acting upon the major types of earth materials and structures. Laboratory work includes the interpretation of topographic and geologic maps, air photos, and stereopairs. A field trip may be required.
Prerequisite(s): (GEOG 111 or GEOG 103 or GEOL 103)
Equivalent(s): GEOL 420
Recent Term(s) Offered: fall 2019

GEOG 425  Political Geography  3 Hours
A study of the political system as a spatial phenomenon from pre-literate forms and socio-political integration to the nation-state and other modern forms of political unification. Examples from local, metropolitan-regional, national, and international levels. Note: Permission of instructor required.
Recent Term(s) Offered: spring 2019; spring 2021

GEOG 427  Water Resource Management  3 Hours
Examines the use, management, and conservation of water resources. Discusses environmental, economic, political, and social implications of water usage, as well as emerging trends in water availability, pollution, regulation, and technology.
Prerequisite(s): (GEOG 310 or GEOG 310)
Recent Term(s) Offered: spring 2019; fall 2021

GEOG 430  Topics in Cultural Geography  3 Hours
Examines the concept of culture as it relates to the geographic landscape. Topics include the built environment, symbolic landscapes, representation of place in film, literature, photography, music, subaltern geographies, landscapes, and cultures of work and place-situated identity. Course provides an overview of research methods and themes in cultural geography. Field trip and field research required.
Prerequisite(s): GEOG 330
Recent Term(s) Offered: None

GEOG 434  Historic Preservation Planning  3 Hours
An overview of historic preservation methods and practice. The course will include an overview of the historic preservation movement in the United States and an examination of preservation law and methodology. A field project is required.
Equivalent(s): FLK 434
Recent Term(s) Offered: None

GEOG 452  Applied Geoscience Field Experiences  1-6 Hours
(repeatable max of 12 hrs)
Applied geoscience experiences in a variety of field-based settings, including, but not limited to, Study Abroad and Study Away programs, field camps, and extended fieldtrips to national or international settings.
Colonnade/Statewide General Education Code K-LG
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: winter 2019; spring 2019; summer 2019; spring 2020

GEOG 455  Global Climate Change  3 Hours
Explores the science behind global climate change, including how models, observations, and proxies are used to understand and predict past and future climate, international perspectives on global climate change, and mitigation strategies put forth by the Intergovernmental Panel on Climate Change. Note: Permission of instructor may be required.
Prerequisite(s): GEOG 280
Recent Term(s) Offered: fall 2020

GEOG 459  Advanced Hydrology  3 Hours
Builds upon the principles of descriptive and quantitative hydrology using a geologic- and calculus-based approach to understanding the Earth’s hydrologic cycle. Includes components of atmospheric, surface, and ground waters and the principles of fluid dynamics that govern the physical and chemical processes that affect water and its behavior in the natural world.
Prerequisite(s): MATH 136 with a minimum grade of C and (GEOG 310 or GEOG 310) or (GEOG 420 or GEOG 420)
Recent Term(s) Offered: None

GEOG 461  Karst Environments  3 Hours
Provides a fundamental understanding of karst, focusing on the processes, landforms, and evolution of karst landscapes over time, with an emphasis on the characterization, distribution, and function of various karst environments. Field trips and field-based exercises are required. Note: Permission of instructor may be required.
Prerequisite(s): (GEOG 310 or GEOG 310) or GEOG 420
Recent Term(s) Offered: spring 2020

GEOG 462  Geography of South America  3 Hours
Analysis of the physical and cultural bases of South America’s geographical patterns with an emphasis on problems of urban and regional development. Note: Permission of instructor required.
Recent Term(s) Offered: None

GEOG 465  Geography of East Asia  3 Hours
Analysis of selected contemporary geographic issues in East Asia. Emphasis is on a synthesis of various geographic factors and phenomena, including physical, cultural, political, social, and economic systems.
Prerequisite(s): GEOG 110
Recent Term(s) Offered: spring 2020; fall 2020; fall 2021

GEOG 466  Geography of Africa  3 Hours
A geographic survey assessing the relationships of the physical and cultural patterns to actual and potential economic development. Note: Permission of instructor required.
Equivalent(s): AFAM 466
Recent Term(s) Offered: None

GEOG 467  Geography of the Middle East  3 Hours
This course deals with the various aspects of the present occupancy of southwestern Asia and surrounding regions. Emphasized are the physical setting, the historic religious geography of the region, and the contemporary scene. Note: Permission of instructor.
Recent Term(s) Offered: None

GEOG 471  Technological Applications in Natural Resource Management  3 Hours
Examines the application of technology to address current resource management challenges and ensure the efficient utilization of natural resources. Discussions may address, but are not limited to, timber, fisheries, oil and gas, and wildlife management. Note: Permission of instructor may be required. Colonnade/Statewide General Education Code SB
Prerequisite(s): GEOG 280 and GISC 316
Recent Term(s) Offered: spring 2019
GEOG 474  Environmental Planning Applications  3 Hours
Integrative topics in environmental science, sustainability, and planning. Emphasis on sustainable community planning and development in urban and rural settings. Students study current models and policies from around the globe. Note: Permission of instructor may be required.
Prerequisite(s): GEOG 280 and GEOG 210
Recent Term(s) Offered: None

GEOG 475  Selected Topics in Geography  1-3 Hours
A study of a selected problem under the supervision of a faculty member. Note: Permission of instructor may be required.
Restriction(s): Students with a semester level of Academy Junior, Academy Senior, Freshman, Junior or Sophomore may not enroll.
Recent Term(s) Offered: spring 2019; summer 2019; fall 2019; spring 2020; spring 2021; fall 2021

GEOG 480  Sustainable Cities  3 Hours
This course explores the consequences of urban development and the essentials of sustainable urbanism. Topics include environmental and human costs of urbanization, landscape change, mobility, and urban responses to climate change. Colonnade/Statewide General Education Code SB
Recent Term(s) Offered: fall 2020; fall 2021

GEOG 481  Tourism Geography  3 Hours
Examination of concepts, models, and theories in the geography of tourism. Topics include the evolution of patterns of tourism, economic, environmental, and socio-cultural impacts of tourism, sustainable tourism, environmental tourism, ethical tourism, the politics of tourism, and critical analysis of alternative meanings of tourism sites. Local, national, and international examples in both developed and developing countries are discussed. Field trips may be required.
Prerequisite(s): GEOG 110
Recent Term(s) Offered: None

GEOG 486  Seminar in Environmental Science and Sustainability  1-3 Hours (repeatable max of 6 hrs)
Current issues related to sustainability and/or environmental science discussed via invited lecturers, community engagements, and/or department and university-wide seminars. Students are expected to participate in assigned seminar activities throughout the duration of the course.
Recent Term(s) Offered: spring 2021

GEOG 487  Environmental Management and Law  3 Hours
Examination of major legislative, administrative, and judicial management approaches to addressing current environmental conditions related, but not limited to, natural resource consumption and air, water, and hazardous pollutants in the United States and abroad. Note: GEOG 210 required for Geography majors and minors.
Restriction(s): Students with a semester level of Academy Junior, Academy Senior, Freshman, Junior or Sophomore may not enroll.
Recent Term(s) Offered: spring 2020

GEOG 489  Alternatives in Sustainability  3 Hours (repeatable max of 6 hrs)
Addresses aspects of sustainability theory and practice, including problem-solving and decision-making techniques and critical analyses of prominent sustainability plans. Content focuses on a single topic within the sustainability discipline for the entirety of the course.
Prerequisite(s): GEOG 280
Recent Term(s) Offered: None