**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 E-NS | NS
Equivalent(s): GEOL 103
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; spring 2018; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

**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 E-SB | SB
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; winter 2018; spring 2018; summer 2018; fall 2018; winter 2019; spring 2019; summer 2019; fall 2019

**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 2017; fall 2018; fall 2019

**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 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 2017; fall 2018; fall 2019

**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 2017; fall 2019

**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 K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2018; fall 2018; spring 2019; fall 2019

**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 K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; spring 2018; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

**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 K-SY
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; spring 2018; fall 2018; spring 2019; summer 2019; fall 2019

**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: fall 2017; fall 2018

**GEOG 280  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 E-NS, E-SL | NS
Course Fee: $10
Recent Term(s) Offered: spring 2017; fall 2017; spring 2018; fall 2018; spring 2019; fall 2019

**GEOG 295  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 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 2017; fall 2017; spring 2018; fall 2018; spring 2019; fall 2019

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): (GEOL 111 or GEOG 103 or GEOG 103)
Equivalent(s): GEOL 310
Recent Term(s) Offered: fall 2017; fall 2018

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: fall 2018

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 K-SC
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: summer 2017; fall 2017; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

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 SB
Recent Term(s) Offered: spring 2017; spring 2019

GEOG 352  Geography of Kentucky  3 Hours
No course description is available
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; spring 2018; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

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 SB
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; spring 2018; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

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 378  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 K-LG
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Course Fee: $15
Recent Term(s) Offered: spring 2018; spring 2019

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 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 2017; spring 2018; spring 2019; fall 2019

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 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: fall 2017

GEOG 386  Geography of Potent Potables:Fermenting, 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 K-LG
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: fall 2017; spring 2018; spring 2019

GEOG 391  Spatial Data Analysis and Interpretation  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 2017; fall 2017; spring 2018; fall 2018; spring 2019; fall 2019
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): (GEOL 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 2017; spring 2019

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): (GEOL 310 or GEOG 310)
Recent Term(s) Offered: spring 2017; spring 2019

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: fall 2018

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 K-LG
Prerequisite(s): 21 hours of Foundations and Explorations Courses, or junior status
Recent Term(s) Offered: winter 2017; spring 2017; summer 2017; winter 2018; spring 2018; summer 2018; winter 2019; spring 2019; summer 2019

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: None
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: fall 2017

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: winter 2017; spring 2017; summer 2017; fall 2017; spring 2018; summer 2018; fall 2018; spring 2019; summer 2019; fall 2019

GEOG 480  Urban Geography  3 Hours
Geographic principles related to basic elements of distribution, structure, functional relationships, and regional setting of urban centers are discussed. Colonnade SB
Recent Term(s) Offered: spring 2018

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 2018

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: fall 2017

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: fall 2018

GEOG 492  Advanced Spatial Analysis  3 Hours
Applying advanced spatial analytical techniques in GIS environment. Quantitative analysis in Geosciences is emphasized. Note: Permission of instructor may be required.
Prerequisite(s): GEOG 300 with a minimum grade of C and GEOG 391 with a minimum grade of C
Course Fee: $50
Recent Term(s) Offered: spring 2018; spring 2019

GEOG 495  Research Practicum or Internship  1-9 Hours (repeatable max of 12 hrs)
Supervised research or internship with faculty, government, community, or private concerns. May be repeated for a maximum of 12 credit hours in the major, with a maximum of 6 credit hours permitted in minor programs. Note: Permission of instructor required.
Recent Term(s) Offered: spring 2017; summer 2017; fall 2017; winter 2018; spring 2018; summer 2018; fall 2018; winter 2019; spring 2019; summer 2019; fall 2019

GEOG 499  Professional Preparation  1 Hour
Professional career or graduate school preparation, resume writing, college-to-career transition, professional ethics, graduate school application and requirements, written senior assessment, and selected seminar topics. Outside speakers from industry and academia will be included.
Restriction(s): Students with a semester level of Academy Junior, Academy Senior, Freshman, Junior or Sophomore may not enroll.
Recent Term(s) Offered: fall 2017; fall 2018; fall 2019