

Subject	Nbr	Section	Class Title & Description – FALL 2021	Days	Time Start	Time End	Instructor
GEOG	100	D	World Geography and Globalization	TU/TH	11:30 AM	12:45 PM	Joslin, Audrey
			<p>The process of globalization is fundamentally changing the way all of us operate in this world. This course helps you understand that process and how it impacts populations, economies, political dynamics, cultures, and the natural environment across world regions. Students will gain a deeper understanding of contemporary global affairs and learn to interpret patterns of similarity and difference between places. This course will provide a great foundation for traveling and exploring the world in which you live, or for navigating a career within an increasingly connected and complex world.</p>				
GEOG	100	C	World Geography and Globalization	TU/TH	1:05 PM	2:20 PM	Lu, Max
			<p>The world is becoming more and more integrated, interconnected and interdependent. Our life is inevitably affected by events taking place in distant places such as the Mideast and China. It is therefore imperative to understand other cultures and peoples. World Geography & Globalization will introduce you to the world's major realms, regions, countries and places, including their physical environments, natural resources, culture, population, ethnicity, economy, and even political systems. It will help you understand what lies behind the changes and conflicts we are witnessing in the world daily. With the knowledge and insights you will gain from the course, you will look at what is taking place around the world and in our lives very differently and learn to untangle the many complicated world issues of today and tomorrow.</p>				

GEOG	100	A	World Geography and Globalization	MWF	10:30 AM	11:20 AM	Smith, Jeffrey
			<p>Are you interested in the dynamics of global business and world cultures? Or, understanding the causes of social unrest and the impact of environmental change? This is the class for you. This course helps you understand the process of globalization and how it impacts world cultures, places, current events, and the economy. World Geography and Globalization brings the beauty, complexity, and wonder of world cultures and places to you. A must if you dream about traveling internationally, or simply aspire to make a living in an increasingly connected world.</p>				
GEOG	121	A	Introduction to Physical Geography: Earth Systems Sciences	MWF	11:30 AM	12:20 PM	Goodin, Douglas
			<p>Geography 121 will provide you with an introduction to the physical Earth system, motivated by the overarching question; why is Earth so different from every other planet we know about and what role does life, including human life, play in making it different? The course will examine landforms and soils and how they form and evolve, the formation and patterns of weather and climate, and how ecosystems and biomes both shape and are shaped by biogeochemical cycling within the system. The role of humans in the earth system, and how human activities alter the global environment will be emphasized.</p>				
GEOG	121	B	Introduction to Physical Geography: Earth Systems Sciences	MWF	9:30 AM	10:20 AM	Wang, Jida

			<p>Are you curious of the physical constructs and the natural landscapes of our planet Earth? Are you interested in the basic rules that govern the Earth's natural systems and how human activities influence them? Then, Introduction to Physical Geography is the class for you. This class will explore the fundamentals of Earth Sciences, with a focus on the four realms of our planet: the atmosphere, the hydrosphere, the lithosphere, and the biosphere. The course is suitable for students from all major backgrounds, and is designed to improve the literacy in Earth Systems Sciences for a citizenry that appreciate the natural environments and can better address ongoing challenges.</p>				
GEOG	121	C	Introduction to Physical Geography: Earth Systems Sciences	TU/TH	9:30 AM	10:45 AM	Langston, Abigail
			<p>We will introduce you to the science of Earth Systems, focusing on the four realms of Earth: the atmosphere, the hydrosphere, the lithosphere, and the biosphere. We will cover global climate patterns and local weather patterns, how mountains are built and how rivers, glaciers, and wind turn mountains into soil, how biomes and ecosystems interact with biogeochemical cycles, and how climate change and human actions are altering our planet.</p>				
GEOG	200	A	Human Geography	MWF	10:30 AM	11:20 AM	Caldas, Marcellus
			<p>This course has many goals. First, it will provide you with a general introduction to human geography. Second, I want to lead you into the geographic way of thinking about concepts of society, places, space and related issues. We will study patterns and processes of human activity from a geographic perspective. In doing this, we will focus on population growth, culture and identity, urban growth, political geography, agriculture, development, environment and problems associated with these processes. The course will provide a critical toolkit for examining current global issues that impact our world today.</p>				
GEOG	200	B	Human Geography	TU/TH	9:30 AM	10:45 AM	Paul, Bimal

			Using global approach, this course will introduce students to the topics of human geography, such as world's population and migration, cultures, religions, languages, and economic development and activities. It is designed to introduce the nature and intellectual challenges of the field of geography and the special position of human geography within it. This course will help students to prepare for higher level courses in geography and other relevant social science disciplines.				
GEOG	200	C	Human Geography	TU/TH	1:05 PM	2:20 PM	Smirnova, Vera
			The field of human geography teaches us to understand how human societies function spatially , in other words – how we make places and how those places, in turn, structure our lives. Human geography encompasses a wide array of subdisciplines, ranging from political, economic, and environmental, to cultural, with different conceptual toolboxes offered to examine ways in which people organize their activities in space. This course will cover major themes in geography and will teach us to look at the dynamic relations between people and the world through a geographical lens.				
GEOG	302	A	Cartography and Thematic Mapping	MW	9:30 AM	10:20 AM	Hutchinson, Shawn
			From official documents to social media, maps are everywhere! If a picture is worth a thousand words, then a good map is worth a thousand pictures. Maps can be POWERFUL tools to convey the spatial patterns exhibited by varied data (e.g., environmental, health, economic, population) at different scales. But, have you ever wondered how maps should be made or questioned the reliability of maps that you see in your everyday life? In GEOG 302, you will learn how to use a geographic information system (GIS) to acquire and manipulate spatial data to create thematic maps that follow established cartographic design standards and learn to become a more critical consumer of map-based information.				

GEOG	490	B	Problems in GEOG/Social Justice and the City	TU/TH	3:55 PM	5:10 PM	Smirnova, Vera
			This course will provide a comprehensive introduction to urban geography through the study of its central themes – power, justice, and the city . Often seen as centers for innovation and prosperity, urban areas also perpetuate inequalities and create systems of control, exploitation, or exclusion, while at the same time inspiring emancipatory social movements. This course will integrate critical standpoints in urban geography for understanding the conflicting processes that shape urban life today. We will examine the social, political, and economic struggles behind urban development. In particular, we will cover questions of urban segregation and gentrification, inequality and poverty, urban protests and social movements, authoritarian urban governance and political conflicts. We will rely on examples from across the world and throughout history to study these topics.				
GEOG	508	A	Geographic Information Systems 1	TU/TH	9:30 AM	10:45 AM	Avocat, Helene
			This course will introduce you the exciting and rapidly developing field of Geographic Information Systems (GIS). Through a combination of both lectures and lab exercises, you will be exposed to geospatial concepts and terminology, techniques of spatial data acquisition, visualization and analysis, and hands-on operations using standard GIS software packages. This course is also one of the required major courses for the K-State GIS Certificate Program and our new B.S. degree program in Geographic Information Science & Technology.				
GEOG	605	A	Remote Sensing of the Environment	TU/TH	8:05 AM	10:20 AM	Goodin, Douglas
			This course will cover the foundations, techniques, and applications of terrestrial remote sensing. Through a combination of lectures and studio exercises, the course will provide you with the basic science of remote sensing, the overview of satellite and airborne sensors, analytical methods to process information from spatial data, and applications in several earth science topics, especially environmental issues and land use changes. Enrolled students have come from				

			diverse backgrounds such as Agronomy, Biology, Environmental Design and Planning, Geography, Geology, and Park Management and Conservation.				
GEOG	608	A	Geographic Information Systems II	TU/TH	10:30 AM	12:20 PM	Temme, Arnaud
			In GIS2, you will become proficient in the use of geodatabases, model builder and spatial analysis methods in ArcGIS Pro, the leading software in the geospatial industry. The class attempts to prepare for a future as GIS specialist or, alternatively geography graduate student.				
GEOG	622	A	Geography of South America	MWF	1:30 PM	2:20 PM	Caldas, Marcellus
			South America is a region of extremes. It hosts the world's largest river (the Amazon) as well as the world's driest place (the Atacama Desert). The Amazon rainforest is one of the richest biodiversity hotspots in the world. Its culture is deeply linked to native Americans and their connection with the natural resources. The basic objective of this course is to provide you with a general introduction to Geography of South America. More specifically, this course will explore the dynamic region of South America from a geographic, economic and political perspective.				
GEOG	700	A	Quantitative Analysis Geography	TU/TH	11:30 AM	12:45 PM	Paul, Bimal
			This course will help students in understanding the purpose, meaning, and appropriate use of both spatial and non-spatial statistics in geographical and social science research. It will introduce several univariate, bivariate and multivariate techniques, and prepare for easily follow the more sophisticated and advanced statistical techniques.				

GEOG	707	B	Remote Sensing of Water	W	2:30 PM	5:20 PM	Wang, Jida
			Water is perhaps the most critical and dynamic physical component on Earth. Tracking and understanding the abundance, quality, and dynamics of terrestrial water resources have significant scientific and societal importance. The advancement of remote sensing techniques enables both historical and real-time measurements of a variety of hydrologic properties in unprecedentedly high accuracies and large geographic scales. If you are keen to learn how remote sensing techniques can enable water-related measurements and how such measurements are benefiting scientific investigations and ultimately societal needs, then Remote Sensing of Water is the class for you.				
GEOG	728	A	Programming for Geographic Analysis-Python	W	11:30 AM	2:20 PM	Hutchinson, Shawn
			Python is a general-purpose interpreted, interactive, object-oriented and high-level programming language with broad applications in data analytics and across sciences. As with other open-source software packages such as “R”, an understanding of Python is helpful – if not essential – in accomplishing sophisticated computational tasks. Adding to the value of Python is its tight integration with Esri’s desktop GIS applications such as ArcGIS Pro. This integration allows analysts and researchers to leverage the power of Python to make GIS-based geoprocessing more efficient and accurate by automating many data management, manipulation, and analysis procedures in ways that aren’t possible using basic tools and models.				
GEOG	747	A	Soil Mapping	F	8:30 AM	11:20 AM	Temme, Arnaud
			Soil Mapping provides you with in-depth understanding of the wide variety of methods that are used to map soils for different uses over a range of scales from the local to the global. These methods are the traditional approach linking landforms to soils, Digital Soil Mapping, and mechanistic soil-landscape modelling. We will discuss the fundamental underpinnings of each approach, focus on example				

			studies, and get hands-on experience for each approach. An integral part of the course is to evaluate and quantify the quality of soil maps.				
GEOG	761/861	A	Human Impact on the Environment	TU/TH	1:05 PM	2:20 PM	Martin, Chuck
			How have humans impacted the natural environment in the past? How are they impacting it now? We examine not only the impacts humans are having on the air, water, and land, but also consider the history of our understanding of human impacts on the environment and how we might manage impacts moving forward. This seminar considers works by scientists, social scientists and popular authors and journalists to provide a multi-faceted view of human impacts on the environment.				
GEOG	790	B	Seminar in GEOG/Environmental Governance	W	2:30 PM	5:20 PM	Joslin, Audrey
			This course explores the complexities of environmental problems and our attempts to address them through governance. Students will learn about the roles of governments, markets, and collective action in environmental management and mismanagement, while examining how environmental knowledge and economic systems converge with institutional policies to shape and mediate the way societies understand and respond to environmental change. Students will develop a firm grounding in key theories of environmental governance and analyze examples from around the world.				
GEOG	815	A	Seminar in Rural Population Geography	TU/TH	2:30 PM	3:45 PM	Lu, Max
			This course will discuss the following key topics: population composition and distribution, population growth, demographic and other transitions, theories of migration, living arrangements, health inequalities, and rural depopulation. Emphasis will be placed on a				

			critical understanding of population theories and concepts, methods and data used in population research, as well as major substantive findings from current research in the field.				
GEOG	830	A	Seminar in Rural Geography	TU/TH	9:30 AM	10:45 AM	Sanderson, Matthew
			Rural places, spaces, and communities are changing. Rural Geography is a seminar designed to investigate the landscape of rural socio-environmental change with the theoretical lenses and methodological tools of the social sciences. We take an interdisciplinary approach to rural change, drawing especially from subdisciplines of human geography, rural sociology, and political ecology. Our goals are to understand important social, economic, political, agricultural, and environmental dynamics in rural spaces in the United States, the broader Global North, and in the Global South. We give special emphasis to historical and ongoing processes of: uneven development; spatial and social marginalization, oppression, and inequalities; rural economic restructuring; population change, including migration; rural-urban linkages and tensions; and changing understandings of community and place. Throughout, we explore possibilities for revitalizing and regenerating rural spaces.				
GEOG	850	B	Topics in Environmental GEOG/Modeling Landscapes	W	8:30 AM	11:20 AM	Langston, Abigail
			Because landscapes generally evolve over decades, centuries, and millennia, we can't make direct observations of how hillslopes, river networks, and glacial valleys change through time. By using numerical models of landscape evolution, we can watch landscapes evolve over many years, test different theories of how they formed, and even predict how landscapes will look in the future. In "Modeling Landscapes" we will translate conceptual models of landscape formation into analytical and numerical models of landscape evolution. The goal of this class is to provide graduate students with a "toolbox" of skills to analyze data, execute basic programming tasks, and work with simple numerical models in the Earth and environmental sciences using the Python programming language (no prior programming knowledge necessary).				

