

| Subject     | Nbr        | Section  | Class Title & Description – SPRING 2021   | Days         | Time Start      | Time End        | Instructor           |
|-------------|------------|----------|---|--------------|-----------------|-----------------|----------------------|
| <b>GEOG</b> | <b>100</b> | <b>B</b> | <b>World Geography and Globalization (<i>Hybrid/Blended – Hyflex</i>)</b>   | <b>MWF</b>   | <b>11:30 AM</b> | <b>12:20 PM</b> | <b>Smith, Travis</b> |
|             |            |          | <p>"Geography involves much more than just the simple memorization of countries and their capitals on a map. This class will introduce you to the processes, characteristics, and distribution of the Earth's landscapes and peoples, meaning we will learn not only where places are located, but also why they are there to begin with and how they affect other places and other people.</p> <p>We will accomplish this by breaking the Earth down into more convenient units or realms for study. Our attention will be spread out across the physical and cultural characteristics of the landscape and we will employ maps and some geographic tools to examine them."</p>  |              |                 |                 |                      |
| <b>GEOG</b> | <b>100</b> | <b>D</b> | <b>World Geography and Globalization (<i>Distance/Online – Synchronous</i>)</b>   | <b>TU/TH</b> | <b>1:05 PM</b>  | <b>2:20 PM</b>  | <b>Lu, Max</b>       |
|             |            |          | <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. <b>World Geography &amp; Globalization</b> 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> |              |                 |                 |                      |

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| <b>GEOG</b> | <b>100</b> | <b>F</b> | <b>World Geography and Globalization (<i>Hybrid/Blended -Synchronous</i>)</b>  | <b>MWF</b> | <b>10:30 AM</b> | <b>11:20 AM</b> | <b>Smith, Jeffrey</b>      |
|             |            |          | 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. <b>World Geography and Globalization</b> 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.  |            |                 |                 |                            |
| <b>GEOG</b> | <b>121</b> | <b>B</b> | <b>Introduction to Physical Geography: Earth Systems Sciences (<i>Hybrid/Blended – Combo</i>)</b>  | <b>MWF</b> | <b>11:30 AM</b> | <b>12:20 PM</b> | <b>McCarroll, Nicholas</b> |
|             |            |          | Over the course of the semester we will introduce you to the science of Earth Systems, focusing on the four realms of Earth. These realms, the atmosphere, the hydrosphere, the lithosphere, and the biosphere, encompass all that we experience and observe here on our awesome planet. We will explore topics such as how mountains are born and how they eventually waste away by the erosive power of rivers, glaciers, and wind, how the sun, seas and land control the weather, how climate change and human actions are altering our planet, as well as how the internal processes of the earth create volcanos and earthquakes. This course is designed to give students a broad scientific overview of the Earth and its systems. |            |                 |                 |                            |

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| <b>GEOG</b> | <b>121</b> | <b>C</b> | <b>Introduction to Physical Geography: Earth Systems Sciences (<i>In Person</i>)</b>   | <b>MWF</b>   | <b>10:30 AM</b> | <b>11:20 AM</b> | <b>Temme, Arnaud</b>     |
|             |            |          | 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.                          |              |                 |                 |                          |
| <b>GEOG</b> | <b>121</b> | <b>A</b> | <b>Introduction to Physical Geography: Earth Systems Sciences (<i>Distance/Online - Synchronous</i>)</b>   | <b>TU/TH</b> | <b>9:30 AM</b>  | <b>10:45 AM</b> | <b>Langston, Abigail</b> |
|             |            |          | 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.                          |              |                 |                 |                          |
| <b>GEOG</b> | <b>200</b> | <b>A</b> | <b>Human Geography (<i>Distance/Online – Synchronous</i>)</b>  | <b>MWF</b>   | <b>10:30 AM</b> | <b>11:20 AM</b> | <b>Lima, Rebecca</b>     |
|             |            |          | This course will provide you with a general introduction to human geography. More specifically, Human Geography will lead you into the geographic way of thinking about concepts and issues. We will study patterns and processes of human activity from a geographic perspective and learn basic concepts that affect our lives every day. The course is designed for all student interested in the in learn how to appreciate the pace of change that the world is facing today. |              |                 |                 |                          |

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| <b>GEOG</b> | <b>200</b> | <b>B</b> | <b>Human Geography (<i>Hybrid/Blended – Synchronous</i>)</b>   | <b>TU/TH</b> | <b>9:30 AM</b>  | <b>10:45 AM</b> | <b>Smirnova, Vera</b> |
|             |            |          | This course will provide you with a general introduction to human geography. More specifically, Human Geography will lead you into the geographic way of thinking about concepts and issues. We will study patterns and processes of human activity from a geographic perspective and learn basic concepts that affect our lives every day. The course is designed for all student interested in the in learn how to appreciate the pace of change that the world is facing today.   |              |                 |                 |                       |
| <b>GEOG</b> | <b>302</b> | <b>A</b> | <b>Cartography and Thematic Mapping (<i>In Person</i>)</b>   | <b>MW</b>    | <b>11:30 AM</b> | <b>12:20 PM</b> | <b>Avocat, Helene</b> |
|             |            |          | From official documents to social media, maps are everywhere, and a good map is worth a thousand words! They are powerful tools to describe phenomena that take place on our territories, and cover a vast amount of topics (environment, health, economy, demography and so on). But have you ever wondered how maps were made or questioned the reliability of maps that you see in your everyday life? In this class you will learn how to manipulate data and use GIS (Geographic Information System) software to create your own maps, with respect to the cartographic design standards. |              |                 |                 |                       |
| <b>GEOG</b> | <b>332</b> | <b>A</b> | <b>Introduction to China (<i>Distance/Online – Synchronous</i>)</b>  | <b>TU/TH</b> | <b>9:30 AM</b>  | <b>10:45 AM</b> | <b>Lu, Max</b>        |
|             |            |          | With the world's largest population and second biggest economy, China is the country to watch. This course will cover China's natural environment and resource bases, the characteristics of its civilization, its dramatic transformation in the 20 <sup>th</sup> and 21 <sup>st</sup> centuries, as well as the issues of China's engagement and conflict with the United States and the wider world.  |              |                 |                 |                       |

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| GEOG | 335 | A | <b>European Landscapes (<i>In Person</i>)</b>  | MW    | 11:30 AM | 12:45 PM | Temme, Arnaud     |
|      |     |   | This class takes you to the old continent, Europe! We will travel through space and time across Europe in a number of case studies that all highlight the intimate mutual relations between societies and landscapes. Societies evolved differently in different landscapes, and then greatly affected these landscapes to optimize their livelihoods. This leaves us in a Europe where different regions' landscapes still reflect the many hundreds of years of human occupation – setting up old templates for new problems.  |       |          |          |                   |
| GEOG | 360 | A | <b>Sustainability Concepts &amp; Issues (<i>Distance/Online – Asynchronous</i>)</b>  |       |          |          | Nelson, Katherine |
|      |     |   | What is sustainability really about anyway? We'll dive into the ideas behind sustainability and examine real-world issues from a sustainability science perspective. Whether you're a sustainability activist or just curious what all the fuss is about this class has something for you. From coffee to culture and climate change to crops we'll explore the environmental, economic, and social dimensions of pressing issues in today's world and strategies for achieving sustainability goals.  |       |          |          |                   |
| GEOG | 440 | A | <b>Spatial Analysis of Surface Water Hydrology (<i>Distance/Online - Synchronous</i>)</b>  | TU/TH | 2:30 PM  | 3:45 PM  | Langston, Abby    |
|      |     |   | Surface water is a vital and limited resource for both humans and ecosystems. <i>Spatial Analysis of Surface Water Hydrology</i> will introduce you to the physical processes that control how water flows over Earth's surface. Topics will include how water moves from the atmosphere to the Earth's surface as snow and rain, what causes floods, and characteristics of surface water flow in climates ranging from deserts to rain forests. In this class, we will go on several field excursions to practice hydrologic measurement techniques and analyze different data sets to make interpretations about hydrologic conditions. Alternate assignments will be provided for students who are not physically present on campus. |       |          |          |                   |

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| <b>GEOG</b> | <b>460</b> | <b>A</b> | <b>Human Dimensions of Global Change (<i>Distance/Online -Combo</i>)</b>  | <b>TUTH</b> | <b>9:30 AM</b>  | <b>10:45 AM</b> | <b>Sanderson, Matthew</b> |
|             |            |          | <p>Where are we? How did we get here? Where are we going? Why? This course investigates answers to these four questions. As material beings, humans are dependent on the environment; we must transform the environment to survive. Over time, we have scaled up our interactions: our economies, political institutions, social relations, and technologies have grown larger, extending across wider spans of time and space, incorporating more places. Now, as a species, we leave our imprint everywhere: in the atmosphere, the lithosphere, the hydrosphere, and the biosphere. In the Anthropocene – the age of humans – we confront unprecedented human-environmental challenges arising from our effort to grow, to scale up, to develop our societies: climate change, species extinction, soil loss, and water pollution, among others. How will we – homo sapiens, the “wise” ones – be able to find our way out of the Anthropocene, the age we created? Join us as we explore, together, for a time.</p> |             |                 |                 |                           |
| <b>GEOG</b> | <b>508</b> | <b>A</b> | <b>Geographic Information Systems 1 (<i>Distance/Online – Synchronous</i>)</b>  | <b>MWF</b>  | <b>10:30 AM</b> | <b>11:20 AM</b> | <b>Wang, Jida</b>         |
|             |            |          | <p>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 will also offer a capstone project experience, which allows you to collaborate with other students to solve real-world spatial analysis projects. This</p>   |             |                 |                 |                           |

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|             |            |          | 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.   |              |                 |                 |                       |
| <b>GEOG</b> | <b>535</b> | <b>A</b> | <b>Fundamentals of Climatology (<i>Hybrid/Blended – Hyflex</i>)</b>  | <b>MWF</b>   | <b>10:30 AM</b> | <b>11:20 AM</b> | <b>Goodin, Doug</b>   |
|             |            |          | Climatology is the scientific study of long term weather patterns, emphasizing how and why these patterns change in time and space, and how they affect human life and human activities. Understanding climate has always been important. Crucial human activities such as agriculture, natural resource management, and health and welfare all rely on climate knowledge to achieve optimal effectiveness. In recent years, understanding climate has become even urgently important, as it becomes increasingly clear that the Earth’s climate is rapidly changing and that humans are one of the main drivers of these changes. In Geog 535, you will receive a comprehensive introduction to the climate system, including the basic physical and biological forces that produce climate, and the geographical patterns that result from these forces. The course will also introduce you to the science behind global climate change, how these changes are currently being observed, and how the future climate of the earth may be altered due to human activities. The course includes hands-on activities designed to allow students to collect and analyze climate data in order to gain a deeper understanding of how climate is observed and measured, and how climate patterns emerge at scales ranging from local to global. |              |                 |                 |                       |
| <b>GEOG</b> | <b>600</b> | <b>A</b> | <b>Mountain Geography (<i>Distance/Online – Synchronous</i>)</b>   | <b>TU/TH</b> | <b>2:30 PM</b>  | <b>3:45 PM</b>  | <b>Joslin, Audrey</b> |

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|             |            |          | <p>Fascinated with mountain landscapes? You're not alone! Mountains are among the most culturally and ecologically diverse landscapes on Earth. They are valued for their resources, admired for their aesthetic qualities, &amp; revered for their sacredness. They are dynamic environments that provide significant challenges to sustainable development. This course explores the diversity of mountain environments, the geocological processes that shape them, and the role that people play in using, transforming, and conserving them. This course contributes towards K-state Primary Text Certificate credit and as a Natural Resources and Environmental Science Secondary Major elective. K-State 8 tags include Social Science &amp; Natural and Physical Science.</p> |              |                |                 |                          |
| <b>GEOG</b> | <b>605</b> | <b>A</b> | <b>Remote Sensing of the Environment (<i>Distance/Online – Synchronous</i>)</b>  | <b>TU/TH</b> | <b>8:05 AM</b> | <b>10:20 AM</b> | <b>Wang, Jida</b>        |
|             |            |          | <p>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.</p>   |              |                |                 |                          |
| <b>GEOG</b> | <b>608</b> | <b>A</b> | <b>Geographic Information Systems II (<i>Hybrid/Blended – Combo</i>)</b>   | <b>TU/TH</b> | <b>1:05 PM</b> | <b>3:20 PM</b>  | <b>Hutchinson, Shawn</b> |
|             |            |          | <p>GIS has been referred to as playing the role of “the telescope, the computer, and the Xerox machine of regional analysis and synthesis of spatial data” (Abler 1988). GIS has become an essential part of the toolkit for researchers attempting to describe, explain, and predict patterns and processes on the Earth's surface. This intermediate-level course is designed to extend an existing base of GIS knowledge and skills and emphasizes GIS model development while providing an</p>   |              |                |                 |                          |



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|             |            |          | overview of spatial modeling methods and an introduction to geodatabases and geodatabase design.  |            |                 |                 |                          |
| <b>GEOG</b> | <b>620</b> | <b>A</b> | <b>Mexico, Central America, and Caribbean (<i>In Person</i>)</b>  | <b>MWF</b> | <b>1:30 PM</b>  | <b>2:20 PM</b>  | <b>Smith, Jeffrey</b>    |
|             |            |          | Are you interested in the cultural hot spots within Mexico, Central America, and the Caribbean? Or, the dynamics of how global business is affecting MesoAmerica? Or, the impact of environmental change within Middle America? This is the class for you! This course helps you understand the process of globalization and how it impacts regional cultures, places, current events, and the economy.<br><b>Geography of Mexico, Central America, and the Caribbean</b> brings the beauty, complexity, and wonder of cultural practices and places to you. A must if you dream about traveling through these countries, or simply aspire to make a living in an increasingly connected world. |            |                 |                 |                          |
| <b>GEOG</b> | <b>622</b> | <b>A</b> | <b>Geography of South America (<i>In Person</i>)</b>  | <b>MWF</b> | <b>11:30 AM</b> | <b>12:20 PM</b> | <b>Caldas, Marcellus</b> |
|             |            |          | 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.   |            |                 |                 |                          |
| <b>GEOG</b> | <b>712</b> | <b>A</b> | <b>Internet GIS (<i>Hybrid/Blended – Combo</i>)</b>   | <b>WF</b>  | <b>12:30 PM</b> | <b>2:20 PM</b>  | <b>Hutchinson, Shawn</b> |
|             |            |          | The Internet is increasingly being used as the means to deliver maps, geographic data, and spatial data processing services to end users. This course builds upon senior undergraduate and graduate level prerequisites GEOG 508 GIS I and GEOG 608 GIS II and examines client-server computing from a GIScience perspective while  |            |                 |                 |                          |

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|             |                |          | practicing the techniques required to author and serve web-based geographic services and to develop custom GIS-centric Web applications.  |              |                 |                 |                          |
| <b>GEOG</b> | <b>761/861</b> | <b>A</b> | <b>Human Impact on the Environment (<i>In Person</i>)</b>   | <b>TU/TH</b> | <b>11:30 AM</b> | <b>12:45 PM</b> | <b>Martin, Chuck</b>     |
|             |                |          | 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. |              |                 |                 |                          |
| <b>GEOG</b> | <b>833</b>     | <b>A</b> | <b>Seminar in Sustainability Thought, Science, and Approaches (<i>Distance/Online – Combo</i>)</b>  | <b>MW</b>    | <b>9:30 AM</b>  | <b>10:45 AM</b> | <b>Nelson, Katherine</b> |
|             |                |          | In this course we will explore key concepts in sustainability science, frameworks for analyzing these concepts, and methodological approaches for their assessment. We'll take a deep dive into foundational literature on the concepts and frameworks before exploring current applications of technical research approaches across a range of subjects including natural disasters, social justice and agricultural sustainability.   |              |                 |                 |                          |
| <b>GEOG</b> | <b>837</b>     | <b>A</b> | <b>Political Ecology of Land Cover Change (<i>Distance/Online – Combo</i>)</b>  | <b>MW</b>    | <b>1:05 PM</b>  | <b>2:20 PM</b>  | <b>Caldas, Marcellus</b> |
|             |                |          | The field of political ecology has emerged in geography since the 1980s from the intersection of political economy and cultural ecology. The merge of these disciplines allowed Political Ecology to focus on the “politics” of the environment. In general, environmental politics courses focus on the role of government (or interest groups) in developing environmental policies. Political ecology emerges as an  |              |                 |                 |                          |

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|  |  | <p>important field in geography to facilitate our understanding of 'politics' in analyzing the role of environmental discourse and ideology; the politics and environmental change; and the role of economic systems in affecting human relationships with nature. This course will introduce you to the historical development and current status of nature-society research, with a focus on land use and land cover.</p> |  |  |  |  |
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