GEOGRAPHY (GEOG)

This is a list of the Geography (GEOG) courses available at Kwantlen.

GEOG 1101 CR-3

Introduction to Geography

Students will examine the nature and diversity of geography, which attempts to describe and to understand human growth, distribution, social-cultural and economic activities and interactions. They will also learn how the physical environment facilitates or constrains these activities and how human activities may, in turn, affect the natural environment, including the atmosphere, soil, and plant and other natural resources.

Transferable (refer to transfer guide)

GEOG 1110 CR-3

Introduction to the Atmosphere

Students will apply basic scientific principles to study the atmosphere, examine weather processes, and describe patterns of climate worldwide. They will explain how the flows and transfer of energy and water to and from the Earth's surface. They will examine the integration of producing a variety of atmospheric phenomena ranging from microscale weather events, such as local convection and clouds with vertical development, to macroscale frontal systems, wind belts, and general air mass circulation. Students will also discuss evidence and theories concerning long term climate change.

Transferable (refer to transfer guide)

GEOG 1120 CR-3

Introduction to Earth Science

Students will examine the origin, composition and evolution of the solid Earth through a study of its rocks and minerals, the geologic time scale, and the role of tectonic processes in creating and modifying continents, regulating volcanism and seismic activity. They will also demonstrate how the Earth's surface has been modified by weathering, fluvial (stream), glacial, and slope processes.

Transferable (refer to transfer guide)

GEOG 1130 CR-3

Human Impacts on Canadian Environments

Students will examine the relationships between humans and physical environments, with particular emphasis on Canada, a country whose natural resource base has long been the main driver of its development. They will examine a range of views on sustainability, apply these to the selected environmental issues in Canada, and then compare and contrast the effectiveness of public policy towards improving and preserving Canadian environments.

Transferable (refer to transfer guide)

GEOG 1160 CR-3

Regional Geography of British Columbia

Students will examine the evolution of regional patterns of socio-economic growth and development in British Columbia from a geographical perspective. They will examine interactions between physical resources and constraints and cultural and economic landscapes.

Transferable (refer to transfer guide)

GEOG 2120 CR-3

Economic Geography

Students will analyze the location and distribution of economic activities, and the socioeconomic causes and consequences of these patterns over space. They will examine issues and theories relevant to natural resources, manufacturing, transportation and communications, and services, at a range of scales. Students will explore issues of land use and environmental sustainability in an economic and spatial context. They will study the structure of the world economy, socioeconomic development, methods of flexible production, gendered labour and processes of globalization.

Prerequisites: GEOG 1101 or ECON 1101 Transferable (refer to transfer guide)

GEOG 2130 CR-3

Social and Cultural Geography

Students will explore the interactions among culture, society, and geographic space. They will examine the geographic origins, spatial variation, and spatial diffusion of various social/cultural phenomena, as well as their reflection in the material landscape, approaches characteristic of 'traditional' social/cultural geography. Students will also employ the concepts and theoretical perspectives characteristic of the 'new' cultural geography to critically examine the spatial dimensions of social/cultural issues at various scales of analysis

Prerequisites: GEOG 1101

Transferable (refer to transfer guide)

GEOG 2140 CR-3

Regional Geography of Canada

Students will examine the evolution of physical and human environments, and regional patterns of socioeconomic development in Canada, from a geographical perspective. They will analyze and critically comment on interactions between regions within Canada, on patterns of trade, immigration, and other activities within national, continental, and international contexts, and on possible futures for Canada and its regions.

Transferable (refer to transfer guide)

GEOG 2170 CR-3

Regional Geography of Europe

Students will examine the physical and human geography of the countries of Eastern and Western Europe. They will examine the roles played by the physical, cultural and economic resources in the development of the region.

Prerequisites: GEOG 1101 (HIST 1101 strongly

recommended)

Transferable (refer to transfer guide)

GEOG 2185 CR-3 (formerly GEOG 1185) Regional Geography of East Asia

Students will explore the physical and human geography of South Asia. They will examine South Asia's landforms, climate, settlement, population, historical geography, economic activities, and cultural landscapes. Students will gain an understanding of the major geographical patterns, processes, issues, and problems of South Asia.

Transferable (refer to transfer guide)

GEOG 2190 CR-3 (formerly GEOG 1190) Regional Geography of South Asia

Students will explore the physical and human geography of South Asia. They will examine South Asia's landforms, climate, settlement, population, historical geography, economic activities, and cultural landscapes. Students will gain an understanding of the major geographical patterns, processes, issues, and problems of South Asia.

Transferable (refer to transfer guide)

GEOG 2250 CR-3

Urban Geography

Students will discover how cities are complex networks of infrastructure and built form, whose character is central to human activities. They will examine how cities emerged, and how they vary in character globally, with special attention to current cities in Canada. Students will consider models of urban structure and function, along with concepts of land use, governance, and planning for local development. They will also explore socioeconomic and ecological aspects of urbanization, including its dimensions worldwide, issues of stratification and livability, and possible futures for urban regions.

Prerequisites: GEOG 1101 or SOCI 1125 Transferable (refer to transfer guide)

GEOG 2310 CR-3 Climatology

This course applies scientific principles and methods to climatological processes. The study investigates concepts such as the radiation and energy balance, lapse rates and stability, water budgets and general circulation modeling as well as forecasting and climatic change.

Prerequisites: GEOG 1110 (C) and GEOG 1120 (C)

Transferable (refer to transfer guide)

GEOG 2320 CR-3

Geomorphology

Students will examine geological and environmental processes that sculpt, modify, and erode landforms at the Earth's surface. They will focus on processes taking place in or on slopes, streams, soils, groundwater, and glacial environments. Students will also examine the interrelationships between human activities and environmental degradation.

Prerequisites: GEOG 1120

Co-requisites: GEOG 1110 GEOG 1110 Transferable (refer to transfer guide)

GEOG 2330 CR-3

Introduction to Hydrology

Students will examine theoretical and applied aspects of the hydrology of the near-surface environment of the Earth's surface. They will analyze the hydrologic cycle, precipitation processes, groundwater flow, surface runoff and snowmelt processes. Students will examine applied techniques including the collection, compilation and processing of field data.

Prerequisites: GEOG 1110 and GEOG 1120 Transferable (refer to transfer guide)

GEOG 2340 CR-3

Biogeography

Students will examine the past and present geographic distribution of wild plants and animals. They will study terms and theories applicable to biogeography, and the systems used to classify wild animals and plants. Students will investigate the various factors that influence the spatial and temporal patterns in the distribution of the earth's biomes, as well as the evolution and extinction of species. They will examine the impacts of humans on the biosphere, and human awareness of, and responses to, these impacts

Prerequisites: GEOG 1110 and GEOG 1120 Transferable (refer to transfer guide)

GEOG 2390 CR-3

Geographic Information and Data Analysis

Students will explore techniques for describing, analyzing and visualizing geographic information. They will examine the use and application of descriptive and inferential statistical methods in geographical research.

Prerequisites: GEOG 1101, GEOG 1110, GEOG 1120

Transferable (refer to transfer guide)

GEOG 2395 CR-3

Cartographic Techniques

Students will study the theoretical and practical aspects of cartography. They will discuss the value of maps in geography, and will examine the techniques and appropriate uses of various maps in geographical contexts. Students will review map projections, field surveying, and topographic maps, and also construct thematic maps related to selected topics in geography. They will study other cartographic techniques, such as remote sensing (aerial photographs and satellite images), geographical information systems and computer assisted mapping.

Prerequisites: 3 credits in GEOG at 1100-level or higher Transferable (refer to transfer guide)

GEOG 2400 CR-3 Introduction to GIS

Students will explain the basic theory of Geographic Information Systems (GIS) and apply GIS concepts to practical problems in geography at an introductory level. They will discuss a range of GIS technical issues, apply GIS operations using a popular desktop GIS software package, and through these applications improve their skills in designing and creating appropriate graphics

Prerequisites: 3 credits GEOG 1100-level or higher Transferable (refer to transfer guide)

GEOG 3100 CR-3

Research Methods in Human Geography

Students will examine the scope, nature, and practices of research in human geography. They will critically analyze the advantages and limitations of selected methods, and then study how research is designed and revised through the interplay of various theoretical perspectives, their testing and their advancement through empirical studies. Students will outline and apply the sequence of sampling plans, data collection and data analysis to create a research design.

Prerequisites: 45 credits at 1100-level or higher Transferable (refer to transfer guide)

GEOG 3210 CR-3 (formerly GEOG 2110) Geography of Cultures

Students will study the major traditions, themes, and theories of social and cultural geography, all within an ecological approach to the study of human societies. They will examine the character of selected world regions, analyze their present level of development, and identify socioeconomic, political, ecological, and cultural factors that influence development outcomes, past and present. Students will analyze selected rural and urban landscapes, ancient and contemporary, and discuss a series of examples of the spatial diffusion of cultural phenomena.

Prerequisites: (GEOG 1101 or ANTH 1100) and 18 credit of 1100-level or higher courses

Transferable (refer to transfer guide)

GEOG 3220 CR-3

Political Geography

Students will investigate the origins, concepts, theories, and applications of political geography. They will examine the ties between politics and space, various forms of political organization over time, and the historical development of political geography as a branch of human geography. Students will also study forms of political organization at different geographic scales, from the local to the global, and critically assess contemporary political issues associated with each of these scales.

Prerequisites: (GEOG 1101 or POLI 1125) and 18 credits of 1100-level or higher courses
Transferable (refer to transfer guide)

GEOG 3240 CR-3

Development and Globalization

Students will examine the implications for development of the increasing interconnectedness of economic activity, using the region as a unit of analysis. They will examine development as a multifaceted and complex process of social, cultural, political and economic change, and will explore theories of how and where development occurs. Students will examine relationships between rich and poor countries with attention to how links between regions have changed over time. They will pay particular attention to relationships between the multinational corporation and the state in the context of long-run technological change.

Prerequisites: GEOG 2120 and 18 credits of any 1100-level or higher courses

Transferable (refer to transfer guide)

GEOG 3260 CR-3 Geographic Thought

Students will critically examine the perspectives, concepts, theories, and methodologies characteristic of geographic thought and the discipline of Geography. They will survey the historical development of geographic thought both before and after the establishment of Geography as a modern university discipline. Students will assess contemporary approaches to geographic knowledge within physical and human geography, and debates about Geography's ability to provide a holistic perspective to challenges facing humanity.

Prerequisites: 18 credits of 1100-level or higher, including GEOG 1101, GEOG 1110 and GEOG 1120
Transferable (refer to transfer guide)

GEOG 3310 CR-3

Natural Hazards

Students will investigate physical processes and initiation of natural hazards such as geologic hazards (earthquakes, volcanoes), atmospheric hazards (hurricanes, tornadoes), hydrologic hazards (flooding, water pollution), biologic hazards (pests, disease), as well as more general topics such as global climate change and its perceived effects on hazard frequency. Students will analyze why certain populations are at risk and how humans try to prepare for and mitigate hazardous conditions. They will examine new technologies and investigate historic and recent events in case studies, lab and field trip settings.

Prerequisites: GEOG 1110 and GEOG 1120 and 18 credits of any 1100-level course

Transferable (refer to transfer guide)

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GEOG 3320 CR-3

Seminar in Natural Resource Management

Students will examine the character, roles, and interactions among the private sector, public sector, and non-government organizations in the management of resource bases in selected countries and regions worldwide. They will discuss critically a range of conceptualizations of resources, and approaches to their management, including the effectiveness of those management systems in addressing environmental issues, preserving ecological capital, and achieving socioeconomic goals.

Note: This is a seminar course

Prerequisites: Any 18 credits of 1100-level or higher, including 3 credits of GEOG 1160 or GEOG 2140 or GEOG 2170 or GEOG 2185 or GEOG 2190

Transferable (refer to transfer guide)

GEOG 4350 CR-3 Climate Change

Students will evaluate the causes of climate change, including the scope and significance of human modifications of the earth's surface and atmospheric composition. They will examine the controls on global-scale climate, investigate climate change assessments at a variety of time-scales, assess proxy measurements of climate change, and explore the modeling of future climate projections. Students will survey the impacts of climate change on human society, and evaluate efforts to mitigate the process and effects of climate change.

Prerequisites: 45 credits at 1100-level or higher, including GEOG 2310

Transferable (refer to transfer guide)

GEOG 4380 CR-3

Applications in GIS

Students will further their knowledge of Geographic Information Systems (GIS) by applying GIS technology to spatial analysis problems. They will use GIS to analyze case studies in fields such as environmental science, resource management, urban planning, social science, criminology and medicine. Students will explore the techniques, methods and processes involved in the development of a GIS, technical issues and project management.

Prerequisites: GEOG 2400 plus 18 credits of 1100-level or

higher courses

Transferable (refer to transfer guide)

GEOG 4501 CR-3

Special Topics in Geography

Students will engage in an intensive study of a selected topic in geography, as determined by the instructor. They will review relevant literature, develop a research proposal, write a comprehensive report, and present the results of their research.

Note: the topic of study will be established in advance by the department. Please check with the department for proposed offerings. Students may take this course multiple times for further credit on different topics.

Prerequisites: 45 credits at the 1100-level or higher, including GEOG 1101, GEOG 1110 and GEOG 1120

GEOG 4599 CR-3

Directed Studies

Students will carry out a detailed investigation of a geographic topic consisting of readings and research, under the supervision of a faculty member with expertise in the area. They will be required to identify relevant sources of information and to develop a comprehensive understanding of their topic, in addition to submitting a final assignment.

Prerequisites: 30 credits in GEOG