

GEOGRAPHY

Cascade Campus
Terrell Hall (TH), Room 220
971-722-5251

Rock Creek Campus
Building 3, Room 201
971-722-7327

Southeast Center
Mt. Scott Hall (MSH), Room 103
971-722-6147

Sylvania Campus
Social Science Building (SS), Room 215
971-722-4289

DESCRIPTION

Geography is concerned with the uniqueness of places. What makes one place unique and different from another? What are the factors and processes, both human and physical, which account for this uniqueness? Geography is not concerned with memorization of place names (capitals, rivers etc.) lists of imports and exports or other statistical information.

See the Course Description (GEO prefix) section of this catalog for individual Geography courses and course prerequisites.

DEGREES AND CERTIFICATES OFFERED

Less Than One-Year Certificate

Geographic Information Systems

PREREQUISITES AND REQUIREMENTS

1. Writing 115 or equivalent placement scores
2. Reading 115 or equivalent placement scores
3. Math 60 or equivalent placement scores

GEOGRAPHIC INFORMATION SYSTEMS LESS THAN ONE-YEAR CERTIFICATE

Minimum 44 credits. Students must meet all certificate requirements.

Geographic Information Systems Certificate Credit Summary

GEO	24
GIS Certificate Electives	16
SP	4

Credit Total 44

Geographic Information Systems Core Courses

GEO 105	Introduction to Human Geography	4
GEO 106	Geography of the Developed World	4
GEO 107	Geography of the Developing World	4
GEO 265	Introduction to GIS	4
GEO 266	GIS Analysis	4
GEO 267	Application Topics in GIS	4
SP 111	Public Speaking	4
GIS Certificate Electives		16

Geographic Information Systems Certificate Electives

BI 145	Introduction to Fish and Wildlife Conservation and Management	4
BI 200B	Principles of Ecology: Field Biology	4
BI 202	Botany: An Introduction to the Plant Kingdom	4

CSS 200	Soils and Plant Nutrition	3
ESR 150	Environmental Studies Orientation	1
ESR 160	Introduction to Environmental Systems	4
ESR 173	Environmental Science: Geological Perspectives	4
ESR 201	Applied Environmental Studies: Science/Policy Consideration	4
ESR 202	Applied Environmental Studies: Prep for Problem Solving	4
G 201	Physical Geology	4
G 202	Physical Geology	4
G 207	Geology of the Pacific Northwest	3
GEO 204	Geography of the Middle East	4
GEO 206	Geography of Oregon	4
GEO 209	Physical Geography: Weather and Climate	4
GEO 221	Field Geography: The Local Landscape	4
GEO 230	Geography of Race and Ethnic Conflicts	4
GEO 298	Independent Study: Geography	3
HOR 290	Introduction to Landscape Design	3

COURSE DESCRIPTIONS

GEO 105 Introduction to Human Geography 4.00 Introduces key geographic themes of location, place, region, human-environment interaction, and mobility. Includes an examination of spatial patterns of topics such as language, religion, culture, population, cooperation and conflict, natural resources, migration, and political organization. All of these are addressed at varying scales and with respect to their influence on the global landscape. Special attention is given to current issues and events. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 106 Geography of the Developed World 4.00 An examination of world regions with developed industrial and service economies, including Europe, the United States, Canada, the former Soviet Union, Japan, Australia, and New Zealand. Topics include spatial patterns of economic development, resource use, international trade, population and migration, transportation, and urban landscapes. Each region is analyzed as part of the larger global community, with a specific emphasis on current issues and trends. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 107 Geography of the Developing World 4.00 An examination of world regions, including non-western cultures, with an undeveloped or developing industrial base including lower standards of living. Particular attention is given to Asia, Central and South America, and Africa. Topics include the spatial patterns of agriculture, industrial development, resource use, population and migration, religious and political conflict, and cultural landscapes. Each region is analyzed as part of the larger global community, with a specific emphasis on current issues and trends. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 204 Geography of Middle East 4.00 Examines the impacts of different physical and cultural factors in formation, development, and distribution patterns of human settlements, and studies the influence of religious beliefs as well as other cultural elements in the evolution of human landscapes and the quality of life within the region. Study the Middle East as a culturally diverse region (i.e. not a monolith) and learn about the dominant value systems held by different Middle Eastern societies. Among issues discussed in class are population issues, urbanization processes, traditionalism, modernity, male-female relations, feminism, democracy, and westernization. Audit available.

GEO 206 Geography of Oregon 4.00 Examines various historical, social, economic and geographic factors that have made the Oregon landscape unique. Slides, films, videos, and overhead transparencies are utilized. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 209 Physical Geography: Weather and Climate 4.00 Examines the processes of the atmosphere, the distribution and character of climate types, climate change and humankind as a modifier of climate. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 210 The Natural Environment 4.00 Focuses on natural processes that create physical diversity on the earth. Includes weather and climate, vegetation, soils, landforms, ecosystems, their distribution and significance. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 221 Field Geography: The Local Landscape 4.00 Works with a community organization using field research methods in human geography and application of GIS to prepare cartographic presentation of community needs and resources. Prerequisite: WR 115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 230 Geography of Race & Ethnic Conflicts 4.00 Examines the issues of race and ethnicity and their interrelationships with contemporary global patterns of political factionalism, economic disparity, religious fervor and ethnic nationalism. Learn how these issues influence the processes of development for various countries (developed and developing) throughout the world. Audit available.

GEO 250 Geography of Africa 3.00 Provides an understanding of the geographical perspectives - physical and cultural landscapes, people, natural resources, economic activities, regions, and political divisions - of Africa south of the Sahara or Sub-Saharan Africa. Special emphasis on the region's historical geography and on its political, cultural and demographic ramifications to explain its problems and the changes now occurring in the region. Audit available.

GEO 265 Introduction to GIS (Geographical Information Systems) 4.00 Provides a conceptual overview and hands-on experience using ArcView GIS software. Introduces basic principles of maps and map design and use ArcView GIS to create, edit, display, query and analyze geographic and tabular data and create maps and charts. An introduction to GPS is included. Prerequisite: WR115, RD 115 and MTH 20 or equivalent placement test scores. Audit available.

GEO 266 GIS Analysis 4.00 Provides a more advanced overview of ArcGIS software and introduces extensions to the main ArcMap interface. Topics include preparing data for analysis, creating and managing databases, geocoding, creating and editing spatial data, and analyzing data using the Spatial Analyst and 3D Analyst extensions. Prerequisite: GEO 265; or instructor permission. Audit available.

GEO 267 Application Topics in Geographic Information Systems 4.00 Application focus varies and provides an opportunity for extended exposure to one or more of the analytical techniques first learned in prerequisite courses. Attention to institutional and professional GIS application issues and programming environments. Prerequisite: GEO 266; or instructor permission. Audit available.

GEO 280A Cooperative Education: Geography Enables students to extend their knowledge of Geography through work in settings which provide learning experiences that are not available in the classroom, but which supplement classroom learning. Under the employer's supervision the student learns to apply classroom theory to actual work situations. Department permission required. Audit available.

GEO 280B Cooperative Education: Geography - Seminar 1.00 Provides a forum in which to discuss work experiences with peers and instructor. Department permission required. Audit available.

GEO 298 Independent Study: Geography 3.00 Offers individualized study at an advanced level in areas of geography not considered in other courses to meet special interests or program requirements. Students complete a term project and readings approved by the instructor. Recommended: prior study of geography. Audit available.