GEOGRAPHY (GEOG)

GEOG 101 – Physical Geography I: The Atmosphere  4 credit hours
This course is an introduction to physical geography with an emphasis on
the atmosphere and vegetation of the Earth, including solar energy,
seasons, the processes of weather and climate, the hydrologic cycle,
regional and global climate change, ecosystem functions, and patterns of
plant distribution on the physical landscape. The course also considers
human impacts on the atmosphere, the oceans, and the land. Three (3)
hours of lecture and two (2) hours of lab each week.

GEOG 102 – Physical Geography II: The Lithosphere  4 credit hours
This course is an introduction to physical geography with an emphasis on
the geologic framework of the Earth and the various atmospheric/    
gradational processes which interact to produce the physical landscape.
The course also considers weathering, erosional and depositional
processes and the landforms produced by running water, glacial ice,
wind and waves as well as to the effects of human interaction with these
processes. Three (3) hours of lecture and two (2) hours of lab each week.

GEOG 103 – The Dynamic Planet: Hazards in the Environment  3 credit
hours
This course investigates natural hazards associated with atmospheric,
hydrologic, and geologic processes and their impacts on human society.
Topics include periodic natural processes that create hazards to human
activity, human perceptions of natural hazards, hazard avoidance,
disaster prevention, and social mechanisms for coping with natural
disasters.

GEOG 104 – World Regional Geography  3 credit hours
This course is an introduction to the world's major regions, using a
systematic analysis of physical and cultural phenomena. The aim is to
explore the globe: its biophysical environments, and more importantly
the patterns of cultural organization that give character to place. By
the end of the course, students should be able to locate almost any
country in the world, and have a basic understanding of its physical and
population characteristics, economic development, agriculture,
environmental issues, and predominant religious, ethnic, linguistic, and
political divisions.

GEOG 106 – Human Geography  3 credit hours
This introductory course examines the interrelationships between
humans, their different cultures, and the natural world. The focus of the
course will be on the processes, both natural and cultural, that cause the
spatial distribution of humans (where they are and are not) as well as
their particular activities on the Earth's surface. These processes include,
but are not limited to, the geography of culture, population, language,
religion, rural and urban change, plus economic, political, and social
imprints.

GEOG 188 – GS Portal  3 credit hours
Students analyze critical issues confronting individuals and society
in a global context as they pertain to the discipline in which the Portal
course is taught. The Portal is intended to help students succeed in their
university education by being mentored in process of thinking critically
about important ideas and articulating their own conclusions. Students
may take the Portal in any discipline, irrespective of their major or minor.
Satisfies the General Studies Portal course requirement. Students may
take their Portal course in any discipline. Students who transfer 24 or
more hours of General Studies credit to UNK are exempt from taking a
portal course.
Total Credits Allowed: 6.00
Prerequisite: First year freshman standing or sophomore standing only.

GEOG 206 – Geography of the United States and Canada  3 credit hours
This course focuses on the study of physical, economic, political,
historical, and cultural processes within the United States and Canada.
Approximately fifteen distinct regions are identified for examination,
based on individual natural and social characteristics.

GEOG 207 – Physical Geology  3 credit hours
An introductory geology course which studies internal/tectonic earth
processes, plate tectonics, mountain building, the geologic elements of
landscape formation and the underlying rocks and structures. Included in
the course are studies of earth history; earthquakes, volcanoes, geologic
natural hazards, a survey of minerals and rocks and economic geologic
resources.

GEOG 209 – Meteorology  3 credit hours
The course considers the basic principles of weather including a study of
the atmosphere's origin, composition, circulation patterns, energy budget
and its role in the hydrologic cycle. Topics include: instruments for
observation, precipitation process, wave cyclones, jet streams, weather
forecasting, weather modification and applications of meteorology to air
pollution, agriculture and aviation.
Prerequisite: MATH 102 or permission of instructor Enrollment not
allowed in GEOG 209 if PHYS 209 has been completed.

GEOG 256 – Geology Field Study  1 credit hour
A four-day field study with travel to the front range of the Colorado
Rockies. Centers on the observation of a variety of geologic as well as
geographic and ecologic phenomena.

GEOG 300 – Map Investigation  3 credit hours
A comprehensive introduction to map usage. Aspects to be covered will
include: types of maps, map reading and interpretation, and where to
acquire maps. This course is designed for students of all disciplines who
are interested in maps or would find a knowledge of maps useful in their
careers.

GEOG 301 – Geography of Soils  3 credit hours
An introductory analysis of various aspects of soil science. Topics will
include: soil formation, morphology, classification, distributional patterns,
and agricultural aspects of soil science.
Prerequisite: GEOG 102 or GEOG 207

GEOG 305 – Environmental Conservation  3 credit hours
This course introduces students to a variety of real-world environmental
conservation practices. Cases are examined from around the world at
local, national and global scales. Topics include ecosystem services
valuation, river restoration, habitat protection and removing pollutants
from the environment.

GEOG 306 – Geomorphology  3 credit hours
Systematic analysis of the processes interacting on the surface of the
Earth which produce the variety of landforms and structures of the
landscape. Emphasis is placed on the interpretation of landforms through
the analysis of topographic maps and associated materials.
Prerequisite: GEOG 102 or GEOG 207

GEOG 309 – Climatology  3 credit hours
Topics will include: Bioclimatology, agricultural and urban climatology,
climatic change and modification, and a comparative analysis of climatic
classification schemes. Designed for students wishing to acquire a
greater understanding of the relationships of the climate to human
occupancy patterns and the natural environment.
Prerequisite: GEOG 101
GEOG 310 – Cartography 3 credit hours
This course is designed to develop skills in the conception, design, and construction of thematic maps. Included will be a brief introduction to data acquisition and manipulation. Primarily for the geography major; cartography may be a useful course for certain others as well. Approximately 1 hour of lecture and 5 hours of lab per week.
Additional Course Fee Required

GEOG 315 – Geographic Information Systems - Principles and Concepts 4 credit hours
This is an introductory course in GIS emphasizing the concepts, basic theory, spatial problem solving, and principles of GIS using both raster and vector data models in a PC environment. It is intended as a foundational course for those who are seeking to: major/minor in spatial analysis or work in the field of GIS. Students should have basic computer skills.
Prerequisite: Junior or senior standing or permission of instructor

GEOG 316 – GIS - Working with GIS and Spatial Analysis 3 credit hours
This is an introductory course in GIS emphasizing a practical understanding of essential GIS and spatial analysis functionality and how they are applied to real-world problem solving across a variety of disciplines. Students will develop a working knowledge of leading GIS software and the associated GIS methods to enable them to apply basic spatial analysis skills to their respective area of study. Students should have basic computer skills.
Prerequisite: Junior or senior standing or permission of instructor
Additional Course Fee Required

GEOG 317 – Remote Sensing of Environment 3 credit hours
This course focuses on basic concepts of image formation that are required to understand any remotely sensed or satellite data. Techniques to analyze satellite data using Erdas Imagine software will be discussed and practiced. Students will learn about commonly used satellite data used for monitoring various natural resources. They will also have an opportunity to conduct a small remote sensing project.
Prerequisite: Junior or senior standing or permission of instructor

GEOG 321 – Economic Geography 3 credit hours
The course is an examination of the geographic elements of economic activity. The course explores the classical geographic models and theories of economic behavior, the factors that influence the location of primary (raw materials), secondary (manufacturing) and tertiary (consumption) activities, and influence of globalization of the world economy locational dynamics and decision-making.
Prerequisite: GEOG 104 or GEOG 106

GEOG 322 – Urban Geography 3 credit hours
Urban Geography examines cities and metropolitan areas of the past, present, and future. Spatial structures of urban settlements in North America and elsewhere are studied both theoretically and descriptively.
Prerequisite: Junior or senior standing or permission of instructor

GEOG 323 – Political Geography 3 credit hours
Political geography looks at the spatial implications of the political process and the impact these policies and processes have on a local, regional, national, or international scale. The rights of individuals form the building blocks of a democratic society. These rights are manifested across space as decisions are made by governments at all levels on behalf of those individuals. This course examines how these decisions are played on a geographical stage through the exploration of topics such as: territoriality, voting and representation, geopolitics, international relations, and the geography of governmental systems.

GEOG 340 – Developing Nations 3 credit hours
This course investigates the causes of underdevelopment and contemporary development issues at the global, regional, national, and local levels. Emphasis is placed on the how (process) and why (explanation) of development. Other processes studied include the making of the third world, agrarian change, urbanization, industrialization, and development policy.
Prerequisite: GEOG 104 or GEOG 106

GEOG 341 – Geography of Latin America 3 credit hours
This course is an analysis of the physical and cultural geographic environment of Mexico, Central America, the West Indies and South America.
Prerequisite: GEOG 104 or GEOG 106

GEOG 344 – Geography of Europe 3 credit hours
This course is an analysis and interpretation of the physical and cultural landscapes of Europe with attention given to political and international issues.
Prerequisite: GEOG 104 or GEOG 106

GEOG 345 – Geography of Asia 3 credit hours
This course focuses on the subjects of culture area, cultural diffusion, cultural ecology, cultural integration, and cultural landscape as they apply to the geography of Asia.
Prerequisite: GEOG 104 or GEOG 106

GEOG 347 – Geography of Africa 3 credit hours
This course is a regional examination of the continent in respect to its physical, social, economic and political diversity.
Prerequisite: GEOG 104 or GEOG 106

GEOG 348 – Geography of Europe 3 credit hours
This course is an analysis and interpretation of the physical and cultural landscapes of Europe with attention given to political and international issues.
Prerequisite: GEOG 104 or GEOG 106

GEOG 350 – International Tourism 3 credit hours
A spatial analysis of international tourism in both the developed and underdeveloped world. Emphasis will be placed on the evolution of international tourism, its present character, and its future. Primary consideration will be given to the environmental, cultural, economic, and social impact of tourism.
Prerequisite: GEOG 104 or permission of instructor

GEOG 388 – GS Capstone 3 credit hours
An interdisciplinary experience where students apply the knowledge, cognitive abilities, and communication skills they have gained from General Studies in designing and completing an original project or paper. Students employ methods and interpretive means of two or more disciplines to integrate knowledge and synthesize their results. Satisfies the General Studies capstone course requirement. Students may take their Capstone course in any discipline.
Prerequisite: Junior or senior level standing or within 6 hours of completing general studies requirements.
Additional Course Fee Required

GEOG 388L – GS Capstone Lab 1 credit hour
Corequisite: GEOG 388.

GEOG 400 – Water Resources 3 credit hours
This course is an overview of issues relating to water resources with an emphasis on the United States. Some of the topics will include: the hydrologic cycle, global status of water resources, water conflicts, droughts and floods, irrigation efficiency, water quality, applications of satellite data, precision agriculture, water resources management, and the impact of climate change on water resources.
Prerequisite: Junior standing
GEOG 401 – Urban and Regional Planning  3 credit hours
A study of the structure of the urban physical setting relating to
industrial, commercial, and residential land use and the factors and
trends affecting their spatial relationships.

GEOG 410 – Geographical Techniques and Thought  3 credit hours
This course is one of the culminating courses in the Geography major.
It focuses on the philosophy, goals, and research of geography as a
discipline. The course includes an exploration of the literature of the
discipline, research methodology and practice and formalization of
written and oral presentations. A portion of the course will be left open to
cover areas of geography not available in other courses.
Prerequisite: Junior standing

GEOG 412 – Environmental Planning  3 credit hours
An applied physical geography course considering the integration of
human and physical processes in the area of land planning, land science,
and landscape design. A portion of the course will involve on-site study
of selected local examples. On-site visitations may occur at other than
regular class times.
Prerequisite: Junior standing

GEOG 415 – Internship  1-6 credit hours
The internship provides upper level Geography majors and minors the
opportunity to work in a professional environment in which they can
apply their knowledge and skills. Students must secure the permission
of their academic advisor or department chair before entering into any
internship.
Department Consent Required
Total Credits Allowed: 6.00

GEOG 416 – Applications of Geographic Information Systems  3 credit
hours
This is an applied course focusing on selected topic(s) in geography
and their GIS application. Students will work quasi-independently
throughout the semester in demonstrating their understanding of, and
ability to perform the ‘GIS Process’ through objective formulation, data
identification and acquisition, database creation, manipulation/analysis
and presentation of findings by applying them to a real-world spatial
problem.
Prerequisite: GEOG 315 or GEOG 316 or permission of instructor
Additional Course Fee Required

GEOG 440 – Special Topics in Regional Geography  1-3 credit hours
Designed for a penetrating analysis of spatial distribution patterns of
physical and cultural phenomena of selected world regions. The course
will involve seminar presentations based upon library research.
Total Credits Allowed: 6.00
Prerequisite: GEOG 104 or GEOG 106 or permission of instructor

GEOG 441 – Special Topics in Human Geography  3 credit hours
Advanced, in-depth studies of various aspects of Human Geography.
Total Credits Allowed: 6.00
Prerequisite: GEOG 104 or GEOG 106

GEOG 442 – Special Topics in Physical Geography  3 credit hours
Advanced, in-depth studies of various aspects of Physical Geography.
Total Credits Allowed: 6.00
Prerequisite: GEOG 101 or GEOG 102

GEOG 443 – Special Topics in GIS, Spatial Analysis and Remote
Sensing  3-4 credit hours
This course looks at a specific methodology, application area, or related
gеographic subfield of Geographic Information Systems (GIS), Spatial
Analysis (SA) and/or Remote Sensing.
Department Consent Required
Total Credits Allowed: 4.00
Prerequisite: At least junior standing and permission of the department
Additional Course Fee Required

GEOG 450 – Senior Geography Project  3 credit hours
A guided review and critical evaluation of current research in geography
which provide the student the opportunity to learn the procedures of
problem identification, data gathering, data manipulation, as well as
written and oral presentation of research results. Emphasis will be
placed on the effective communication of geographic ideas. Students are
advised to contact their Geography faculty advisor during the semester
immediately preceding registration for this course.
Prerequisite: Junior standing

GEOG 456 – Field Study  1-4 credit hours
An extended field study/travel opportunity to selected regions. Depending
on the region selected, students will be able to study, among other, the
regional physical geography, environment and geology, cultural and
historic elements, and contemporary geographic elements.
Total Credits Allowed: 4.00

GEOG 458 – Great Plains Studies  1-3 credit hours
Offers the opportunity to reflect on life through the literature and
other lore of the Great Plains. Through a different subject focus each
offering, the course integrates literary, historical, and paleontological
investigations around issues affecting the plains, with a special focus on
prairie.
Total Credits Allowed: 3.00

GEOG 499 – Independent Study  1-3 credit hours
Independent investigation of a selected problem in geography under the
direction of any Geography faculty member. Requires written report and
oral presentation. Permission of department chairman required to enroll.
Total Credits Allowed: 15.00