## Geography (GEOG)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 1000</td>
<td>Introduction to Physical Geography</td>
<td>3:0:0</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s) or Corequisite(s): GEOG 1000; and University Advanced Standing; GEOG 1300 preferred</td>
</tr>
<tr>
<td>GEOG 1005</td>
<td>Introduction to Physical Geography Lab</td>
<td>1:0:2</td>
<td>Spring</td>
<td>* Prerequisite(s) or Corequisite(s): GEOG 1000</td>
</tr>
<tr>
<td>GEOG 1300G</td>
<td>Survey of World Geography</td>
<td>3:0:0</td>
<td>Fall, Spring, Summer</td>
<td>* Prerequisite(s): (ENGL 1010 or instructor approval) and University Advanced Standing; GEOG 1300 preferred</td>
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<tr>
<td>GEOG 1400</td>
<td>Introduction to Human Geography</td>
<td>3:0:0</td>
<td>Spring Even Year</td>
<td>* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred</td>
</tr>
<tr>
<td>GEOG 1600</td>
<td>Geography of Utah</td>
<td>3:0:0</td>
<td>Fall</td>
<td>* Prerequisite(s): University Advanced Standing</td>
</tr>
<tr>
<td>GEOG 2000</td>
<td>Sustainability and Environment</td>
<td>3:0:0</td>
<td>Fall</td>
<td>* Prerequisite(s): (MAT 1030, MAT 1035, STAT 1040, STAT 1045, MATH 1050, MATH 1055, or higher) and (GEO 1010 or GEOG 1300 or equivalent); and University Advanced Standing</td>
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<tr>
<td>GEOG 2100</td>
<td>Geography of the United States</td>
<td>3:0:0</td>
<td>Spring Odd Year</td>
<td>* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred</td>
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<tr>
<td>GEOG 2200</td>
<td>Geography of Europe</td>
<td>3:0:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred</td>
</tr>
<tr>
<td>GEOG 2500</td>
<td>Geography of Latin America and the Caribbean</td>
<td>3:0:0</td>
<td>Spring</td>
<td>* Prerequisite(s): (ENGL 1010 or instructor approval) and University Advanced Standing</td>
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<tr>
<td>GEOG 3010</td>
<td>Economic Geography</td>
<td>3:0:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): GEOG 3600 or GIS 3600; and an upper division course in natural science recommended; and University Advanced Standing</td>
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<tr>
<td>GEOG 3100</td>
<td>Cartography</td>
<td>3:2:3</td>
<td>Fall</td>
<td>* Prerequisite(s): University Advanced Standing</td>
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<tr>
<td>GEOG 3110</td>
<td>Urban Geography</td>
<td>3:0:0</td>
<td>Spring</td>
<td>* Prerequisite(s): University Advanced Standing; GEOG 1300 preferred</td>
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<tr>
<td>GEOG 3250</td>
<td>Cultural Geography</td>
<td>3:0:0</td>
<td>On Sufficient Demand</td>
<td>* Prerequisite(s): (ENGL 1010 or instructor approval) and University Advanced Standing</td>
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<tr>
<td>GEOG 3400</td>
<td>Environmental Remote Sensing</td>
<td>3:0:0</td>
<td>Fall</td>
<td>* Prerequisite(s): GEOG 3600 or GIS 3600; and an upper division course in natural science recommended; and University Advanced Standing</td>
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**Course Catalog 2020-2021**

Utah Valley University
GEOG 3430
Political Geography
3:3:0
* Prerequisite(s): University Advanced Standing

Surveys the geographic dimensions of political action and theory at local, national and global scales. Covers topics such as geopolitics, nationalism, territoriality, and political conflicts. Examines subjects such as American electoral patterns, Cold War geographies, and 21st century global security.

GEOG 3500 (Cross-listed with: GEO 3500)
Geomorphology
4:3:3
Spring
* Prerequisite(s): [Completion of a course that meets the PP (Physical Science) or SS (Social Science) general education requirement is recommended] and University Advanced Standing

Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes. Course lab fee of $21 applies.

GEOG 3600 (Cross-listed with: GIS 3600)
Introduction to Geographic Information Systems
3:3:3
Fall, Spring
* Prerequisite(s): [Completion of a course that meets the PP (Physical Science) or SS (Social Science) general education requirement is recommended] and University Advanced Standing

Introduces the history, theory, and operation of Geographic Information Systems (GIS). Includes an introduction to GIS data sources, database design, data input, spatial analysis, and map production. Offers valuable preparation for careers in geology, geography, geographic information systems, geomatics, planning, surveying, marketing, environmental technology, biology, engineering, and other related fields. Software fee of $18 applies. Lab access fee of $35 for computers applies.

GEOG 3650
Advanced Geographic Information Systems
3:3:3
Spring
* Prerequisite(s): GEOG 3600 and University Advanced Standing

Expands on GEOG 3600, Introduction to Geographic Information Systems (GIS), and reviews advanced GIS functions and applications to the sciences. Fundamental topics include spatial analysis, geostatistical analysis, 3-D modeling, and project development and implementation. Software fee of $18 applies. Lab access fee of $35 applies.

GEOG 3700
Wetland Studies
3:3:0
Fall
* Prerequisite(s): GEO 1000 OR GEO 1010 OR ENVT 1110 OR BIOL 1010; CHEM 1210 OR Instructor Approval; University Advanced Standing

Examines the structure and function of wetlands with emphasis on wetland biogeochemistry processes, soils, hydrology, flora and fauna, mitigation and restoration, policies and regulations. Explores research methods applied in wetland studies. Provides students with essential skills to critically evaluate wetland issues to make informed decisions. Prepares students to conduct research and communicate scientific information.

GEOG 3705
Wetland Studies Laboratory
1:0:3
Fall
* Prerequisite(s): GEO 1010 OR ENVT 1110 OR BIOL 1010 OR CHEM 1210 OR Instructor Approval; University Advanced Standing
* Corequisite(s): GEOG 3700

Designed to be taken in conjunction with GEOG 3700. Applies techniques for sampling and mapping of wetland soils, plants, water, etc. and analyzes chemistry of wetland samples using modern instrumentation to address outstanding scientific questions related to wetlands. Addresses skills to interpret and present scientific data. Normally includes field trips.

GEOG 3700
Wetland Studies
3:3:0
Fall
* Prerequisite(s): GEO 1000 OR GEO 1010 OR ENVT 1110 OR BIOL 1010; CHEM 1210 OR Instructor Approval; University Advanced Standing

Examines the geologic processes operating at the Earth's surface to understand the origin of our planet's varied landscapes. Explores how landforms respond to climate change, tectonic forcing, and changes in land use. Addresses common geomorphic processes including weathering, soils, hill slope processes, fluvial processes and landforms, aeolian transport, glacial and periglacial environments, karst, and coastal processes. Course lab fee of $21 applies.

GEOG 3800 (Cross-listed with: HIST 3800)
Environmental History of the United States
3:3:0
On Sufficient Demand
* Prerequisite(s): HIST 3010 or instructor approval; University Advanced Standing

Examines human modification of the American landscape. Surveys the physical geography of the United States, landscape change during Native American to European transition, and causes of agricultural and industrial pollution. Topics include land ethics, processes of environmental degradation, technological remedies, history of federal laws and protection agencies. May include field experiences.

GEOG 4100
Geospatial Field Methods
3:1:4
Fall
* Prerequisite(s): (GEOG 3600 or GIS 3600) and MATH 1060; University Advanced Standing

Provides an introduction to measuring, recording, and finding geographic locations in the field using GPS and other methods widely used in industry and research. Applies GPS and other field techniques to scientific problems, and emphasizes hands-on experience with field equipment. Covers geographic reference frames, and integrates field data with desktop GIS software. Software fee of $18 applies. Lab access fee of $35 applies.

GEOG 482R
GIS Internship
1 to 3:1:0 to 3:0
Fall, Spring, Summer
* Prerequisite(s): [Completion of a course that meets the PP (Physical Science) or SS (Social Science) general education requirement is recommended] and University Advanced Standing

Engages students in supervised GIS work in a professional setting. Includes maintaining a journal of student experiences and preparing a paper summarizing their experience. A maximum of 3 credit hours may be counted toward graduation. May be graded Credit/No Credit.

GEOG 489R
Student Research in Geography
1 to 4:0:3 to 12
Fall, Spring
* Prerequisite(s): Junior or Senior standing, instructor approval, and University Advanced Standing

Provides the opportunity to conduct research under the mentorship of an Earth Science department faculty member. Includes any combination of literature reviews, original research, and/or participation in ongoing departmental projects. Involves students in the methodology of original geographic research. Requires preparation and presentation of oral and/or written reports, typically presented in a public forum. May be repeated for a maximum of 4 credits toward graduation.

GEOG 490R
Special Topics in Geography
1 to 4:1 to 4:0 to 9
Fall, Spring, Summer
* Prerequisite(s): Instructor approval and University Advanced Standing

Explores or examines special topics in geography. Topics vary depending on student demand and current topics of significance in geography. May be repeated for a maximum of 4 credits toward graduation.