ENVSCI 200 INTRODUCTION TO ENVIRONMENTAL SCIENCE (GM) ... The introductory course for the environmental sciences major introduces students to the complexity of topics included in environmental sciences and is the important first step in the major. A one hour discussion section allows students and instructors to explore current topics and issues that fall within environmental science.

PREREQ: MATH 141 OR WAIVER OF MATH 141

#1732 Section 01 [units: 4] Gen Ed Math/Natural Sciences (GM)
01/17-05/19 F 09:00 AM - 09:50 AM UH0150 Stephen Levas
01/17-05/19 MW 09:30 AM - 10:45 AM HH1319 Stephen Levas

#1734 Section 02 [units: 4] Gen Ed Math/Natural Sciences (GM)
01/17-05/19 F 10:00 AM - 10:50 AM UH0150 Stephen Levas
01/17-05/19 MW 09:30 AM - 10:45 AM HH1319 Stephen Levas

ENVSCI 400 ENVIRONMENTAL SCIENCE CAPSTONE ... This course enables students to utilize the wide range of knowledge and skills acquired in other courses to complete an original, interdisciplinary environmental science research project while acquiring and refining crucial skills such as research design, analysis, presentation, and teamwork that will prepare them for a career in environmental sciences.

PREREQ: ENVIRONMENTAL SCIENCE MAJOR, SENIOR STANDING OR CONSENT OF INSTRUCTOR

#1730 Section 01 [units: 3]
01/17-05/19 TR 02:00 PM - 03:15 PM UH0160 Andrea Romero

ENVSCI 491 TRAVEL STUDY ... Variable topics. Faculty-led field courses.
#4223 Section 01 [units: 3] NOTE: Class sessions will be announced by the course faculty member(s). Students will also participate in the faculty-led travel study component of the course scheduled for Peru from May 22nd through Jun 8th 2017. Contact the Center for Global Education (email: studyabroad@uww.edu), the course faculty, or the web www.uww.edu/international for a program application; contact DR Burkham for academic requirements or for more information about the course. Applications are due to the Center for Global Education on or before Friday, December 9th, 2016. Shortly after course registration, an initial billing based on most of the estimated Travel Study Program Course fee, as noted on the course application, will be charged to the student's account. A second billing will occur once the Travel Study Program fee has been officially determined less the amount already billed initially. Travel study registration is not available via WINS registration. Travel study participants may not add or drop a travel study course via WINS once it has been added to their academic schedule. Failure to abide by the add/drop provisions of the Travel Study Program could result in severe financial penalties. Students are advised to refer to the Travel Study Application and Student Contract for more information.
01/17-05/19 W 05:00 PM - 07:00 PM UH0150 Jonathan Burkham PERU: ECOTOURISM & SUSTAINABILITY

ENVSCI 493 INTERNSHIP IN ENVIRONMENTAL SCIENCE ...
#1735 Section 01 [units: 1-3] Dept. Consent
01/17-05/19 Arranged Peter Jacobs

ENVSCI 498 INDEPENDENT STUDY IN ENVIRONMENTAL SCIENCE ... Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.
#4540 Section 01 [units: 1-3] Dept. Consent
01/17-05/19 Arranged Dale Splinter

ENVSCI 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH ... Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.
#4541 Section 01 [units: 1-3] Dept. Consent
01/17-05/19 Arranged Dale Splinter

Geography

GEOGRPY 120 INTRODUCTION TO WEATHER AND CLIMATE (GL) ... This course introduces students to the processes controlling and distinguishing weather and climate. Particular emphasis is on data selection, interpretation, and analysis. The impacts of severe weather and climate change on humans is also emphasized. The labs expose students to the wide range of weather and climate information currently available on the Internet.

COREQ: MATH 141 OR WAIVER

#1765 Section 01 [units: 4] Gen Ed Laboratory (GL) NOTE: This is an entirely web based section taught out of D2L. Contact the instructor for additional information. Additional required course fee is $200.
01/17-05/19 Arranged WEB BASED Jean Kowal

#1796 Section 01 W [units: 4] Gen Ed Laboratory (GL) NOTE: This section is reserved for students in our online majors.
This is an entirely web based section taught out of D2L. Contact the instructor for additional information. Additional required course fee is $200.

PREREQ: MUST BE ADMITTED TO AN ON-LINE MAJOR
01/17-05/19 Arranged WEB BASED Jean Kowal
<table>
<thead>
<tr>
<th>Course Topic (if applicable)</th>
<th>General Education Designation (if any)</th>
<th>Start/End Dates</th>
<th>Meeting Days</th>
<th>Meeting Times</th>
<th>Location</th>
<th>Instructor</th>
<th>Consent</th>
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<tr>
<td>GEOGRPY 210 PHYSICAL GEOGRAPHY (GL) ... A study of selected physical aspects of our geographic environment. Emphasis is given to the origin and characteristic features of topographic, climatic, vegetative and soil regions of the earth and to their interrelationships. The ultimate objective is to provide a foundation upon which to build a better understanding of human interrelationships with the physical environment. Field trips are normally taken.</td>
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<td>GEOGRPY 230 HUMAN GEOGRAPHY (GS) ... A systematic study of human land relationships highlighting the diversity of the elements that make up the cultural landscape in various regions.</td>
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<td>01/17-05/19 MW 03:30 PM - 04:45 PM UH0143 Margo Kleinfeld</td>
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<td>GEOGRPY 232 GEOGRAPHY OF RACE AND ETHNICITY IN THE UNITED STATES (DV) (GS) ... The course takes a geographical approach to the study of ethnic and racial groups in the United States. Native American, African American, Hispanic American, and Asian American groups are studied systematically. Major topics include mobility, culture regions, the cultural landscape created by the various ethnic and racial groups, immigration, segregation, and their associated politics.</td>
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<td>01/17-05/19 TR 09:30 AM - 10:45 AM UH0143 Jeffrey Zimmerman</td>
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<td>GEOGRPY 252 GLOBAL ENVIRONMENTAL CHALLENGES (GS) ... An introduction to environmental problems and their complexities. Attention is given to alternative solutions to such problems and the implications these alternatives have for the total environment. The course emphasizes the evaluation of the interrelationships between the environmental resource demands of people and the actual resource base of the earth.</td>
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<td>NOTE: This class is taught online through Desire2Learn. The course site will be available to you at the beginning of the semester. An additional $150 fee will be assessed for this course.</td>
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<td>GEOGRPY 270 GIS I: INTRODUCTION TO GIS AND MAPPING ... An introduction to the quantitative and qualitative mapping techniques applicable to the physical and social sciences. Included are the skills required to create clear, concise and aesthetically pleasing maps, as well as how to derive information from them. Both graphic and cartographic software packages will be utilized to create and evaluate maps. Field trips are normally taken.</td>
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<td>#1763 Section 01 [units: 3] NOTE: Required additional course fee is $25.00.</td>
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<td>GEOGRPY 300 SOIL SCIENCE ... Soil science deals with the systematic description, analysis, and understanding of soils and how they interact with and drive environmental processes and ecosystems. This course will examine the properties, formation, classification, and distribution of soil, stressing the connections between environmental controls on their formation and distribution. Field trips required.</td>
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<td>PREREQ: GEOGRPY 210 OR GEOLGY 100 OR GEOLGY 101 OR BIOLOGY 142 OR CONSENT OF INSTRUCTOR</td>
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GEOGRPY 323 WATER RESOURCES ... Class will investigate the pathways and processes of water transfer and storage in the many reservoirs on earth, along with the impact on water quality and fluxes. Detail is given to shallow groundwater monitoring and soil indicators of saturation for wetland delineation, anthropogenic effects on streams, and land use issues related to water quality. Field trips normally taken.

PREREQ: GEOGRPY 210 OR GEOLOGY 100 OR GEOLOGY 101 OR BIOLOGY 142 OR CONSENT OF INSTRUCTOR

#1771 Section 01 [units: 3]
01/17-05/19 TR 09:30 AM - 10:45 AM UH0150 Dale Splinter

GEOGRPY 330 BIOGEOGRAPHY ... This course provides an introduction to biogeography, the study of distributions of organisms. This course will combine both historical and ecological perspectives in analyzing plant and animal distributions. Human impacts on biotic distributions will also be discussed in some detail.

PREREQ: GEOGRPY 210 OR BIOLOGY 120

#1768 Section 01 [units: 3]
01/17-05/19 MW 02:00 PM - 03:15 PM UH0063 Rex Hanger

GEOGRPY 344 URBAN GEOGRAPHY ... The intraurban consideration of various land-use and population characteristics of cities, their patterns, interrelations and changes is followed by the interurban study of locations, size, spacing, types and functions of urban settlements. Field trips are normally taken.

PREREQ: GEOGRPY 230 OR JUNIOR STANDING OR CONSENT OF INSTRUCTOR

#1798 Section 01 [units: 3]
01/17-05/19 TR 12:30 PM - 01:45 PM UH0150 Jeffrey Zimmerman

GEOGRPY 364 GEOGRAPHY OF EAST ASIA (GS) ... A study of contemporary and historical interrelationships between the natural envirnoment and economic, political and cultural activities in East Asia. Countries studied include: China, Taiwan, Mongolia, Japan, and North and South Korea.

PREREQ: GENED 140 OR GEOGRPY 230 OR JUNIOR STANDING OR CONSENT OF INSTRUCTOR

#1810 Section 01 [units: 3] Gen Ed Social Science (GS)
01/17-05/19 MW 12:30 PM - 01:45 PM UH0150 Margo Kleinfeld

GEOGRPY 370 GIS II: SPATIAL DATA AND ANALYSIS ... The basic principles and operations of geographic information systems (GIS) are presented, including the capture, storage, management, analysis and display of geographic referenced data and their attributes. Laboratory exercises provide extensive hands-on experiences with a number of GIS software packages, including both raster and vector systems. Field trips are normally taken.

COREQ: GEOGRPY 270 OR CONSENT OF INSTRUCTOR

#1749 Section 01 [units: 3] NOTE: Required additional course fee is $25.00.
01/17-05/19 R 11:00 AM - 12:15 PM UH0106 Jeffrey Olson
01/17-05/19 TR 09:30 AM - 10:45 AM UH0106 Jeffrey Olson

GEOGRPY 380 CARTOGRAPHY AND GEOVISUALIZATION ... With the growing use of maps on the web, cartography is experiencing a modern-day renaissance. Our class goals are to learn the principles of map design and apply them to create production-quality maps. We'll also explore advanced techniques for thematic maps and experiment with tools to create interactive web maps. By the course's end, students will have a portfolio of professional maps to share with employers and friends.

PREREQ: GEOGRPY 270

#1811 Section 01 [units: 3]
01/17-05/19 TR 12:30 PM - 01:45 PM UH0106 Jeffrey Olson

GEOGRPY 400 CAPSTONE IN GEOGRAPHY ... Capstone in Geography prepares students for future options within the various fields of Geography/Geology. Portfolio preparation and presentation is emphasized as an essential element of making the transition to careers in both the public and private sector, as well as graduate studies.

PREREQ: GEOGRPY 100, GEOGRPY 210, GEOGRPY 230 OR GEOGRPY 252, GEOGRPY 270 AND SENIOR STATUS OR CONSENT OF INSTRUCTOR

#1766 Section 01 [units: 1]
01/17-03/11 T 05:00 PM - 06:30 PM UH0150 Dale Splinter

GEOGRPY 420 HUMAN AND CLIMATE INTERACTIONS ... The course objective is to distinguish between natural climate change and change induced by human activities. Topics covered include human modifications to cloud cover, global warming, and ozone problems. Another emphasis is to better understand the impacts of severe weather on human activities and the potential threats of future climate change. At least one field trip is usually taken.

PREREQ: GEOGRPY 320 OR CONSENT OF INSTRUCTOR

#4421 Section 02 [units: 3]
01/17-05/19 TR 11:00 AM - 12:15 PM UH0150 John Frye

GEOGRPY 470 APPLIED ENVIRONMENTAL AND NATURAL RESOURCE GIS ... This course will provide the knowledge and skills necessary to utilize GIS for solving applied environmental analysis problems. Specifically, the course is designed to 1) identify and resolve environmental and natural resource problems in terms of spatial analysis, 2) explore a conceptual understanding of GIS, 3) provide students with technical instruction in current GIS software.

PREREQ: GEOGRPY 270 AND GEOGRPY 370 OR CONSENT OF INSTRUCTOR

#1801 Section 01 [units: 3] NOTE: Required additional course fee is $25.00.
01/17-05/19 MW 12:30 PM - 01:45 PM UH0106 Rocio Duchesne-Onora
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<tr>
<th>Start/End Date</th>
<th>Meeting Days</th>
<th>Meeting Times</th>
<th>Location</th>
<th>Instructor</th>
<th>Course Topic (if applicable)</th>
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**GEOGRPY 491 TRAVEL STUDY** ... Variable topics. Faculty-led field courses.

#3589  
Section 01 [units: 3]  
NOTE: Class sessions will be announced by the course faculty member(s). Students will also participate in the faculty-led travel study component of the course scheduled for Peru from May 22nd through Jun 8th 2017. Contact the Center for Global Education (email: studyabroad@uww.edu), the course faculty, or the web www.uww.edu/international for a program application; contact DR Burkham for academic requirements or for more information about the course. Applications are due to the Center for Global Education on or before Friday, December 9th, 2016. Shortly after course registration, an initial billing based on most of the estimated Travel Study Program Course fee, as noted on the course application, will be charged to the student's account. A second billing will occur once the Travel Study Program fee has been officially determined less the amount already billed initially. Travel study registration is not available via WINS registration. Travel study participants may not add or drop a travel study course via WINS once it has been added to their academic schedule. Failure to abide by the add/drop provisions of the Travel Study Program could result in severe financial penalties. Students are advised to refer to the Travel Study Application and Student Contract for more information.

01/17-05/19  
05:00 PM - 07:00 PM  
UH0150  
Jonathan Burkham  
PERU: ECOTOURISM & SUSTAINABILITY

**GEOGRPY 492 FIELD COURSE** ... An introduction to field methods and techniques and their application in the study of a part of the United States or a foreign area. For information about a particular offering, write to the Department of Geography and Geology, University of Wisconsin-Whitewater. Repeatable.

#1789  
Section 01 [units: 4-6]  
NOTE: Tentative dates of travel: May 15-28, 2017  
Cost - $1500.00

01/17-05/19  
04:00 PM - 05:30 PM  
UH0160  
John Frye  
SEVERE WEATHER - PLAINS

**GEOGRPY 493 INTERNSHIP IN GEOGRAPHY** ... Students will be placed in an outside private or governmental agency where they will utilize geographic techniques in approaching practical problems relevant to the agency’s mission. An on-campus seminar with fellow interns and the supervisory instructor is required.

#1849  
Section 02 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Peter Jacobs

#1850  
Section 03 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jeffrey Olson

#1851  
Section 04 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Margo Kleinfeld

#1852  
Section 05 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
John Frye

#1853  
Section 06 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jonathan Burkham

#1854  
Section 07 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Dale Splinter

#1855  
Section 08 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jeffrey Zimmerman

#1856  
Section 09 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Rocio Duchesne-Onoro

**GEOGRPY 498 INDEPENDENT STUDY IN GEOGRAPHY** ... Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.

**PREREQ:** 12 CREDITS IN GEOGRAPHY, 2.75 GPA IN GEOGRAPHY AND CONSENT OF INSTRUCTOR

#1745  
Section 02 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Peter Jacobs

#1834  
Section 03 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jonathan Burkham

#1835  
Section 04 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Rocio Duchesne-Onoro

#1777  
Section 05 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
John Frye

#1746  
Section 06 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Dale Splinter

#1747  
Section 07 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jeffrey Zimmerman

#1778  
Section 08 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jeffrey Olson

#1836  
Section 09 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Margo Kleinfeld

**GEOGRPY 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH** ... Study of a selected topic or topics under the direction of a faculty member. Repeatable one time for a maximum of 6 credits in major/degree.

#1823  
Section 01 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Dale Splinter

#1837  
Section 02 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Jonathan Burkham

#1839  
Section 04 [units: 1-3]

01/17-05/19  
Arranged  
Arranged  
Rocio Duchesne-Onoro
<table>
<thead>
<tr>
<th>Class#</th>
<th>Section</th>
<th>(Units)</th>
<th>General Education Designation (if any)</th>
<th>Start/End Dates</th>
<th>Meeting Days</th>
<th>Meeting Times</th>
<th>Location</th>
<th>Instructor</th>
<th>Course Topic (if applicable)</th>
</tr>
</thead>
</table>
| #1860  | Section 05 | [units: 1-3] | Dept. Consent | 01/17-05/19 | MTWR | 09:00 AM - 10:30 AM | UH0060 | John Frye | GEOLOGY 100 PRINCIPLES OF GEOLOGY (GL) ... An introduction to the concepts which describe the origin and evolution of the earth. Emphasis is on understanding (1) the material make-up of the earth, (2) the internal and external processes which affect the earth, (3) the length of geologic time, and (3) the methods of science, especially as they apply to the study of the earth. One field trip is required. A special fee will be assessed to those students electing to participate on an optional field trip to cover the cost of chartering a bus. Four hours of lectures and two hours of lab each week.  
COREQ: MATH 141 OR MATH 140 OR WAIVER  
#1858 Section 01 [units: 5] Gen Ed Laboratory (GL) 01/17-05/19 T 09:00 AM - 10:30 AM UH0060 Projukti Bhattacharyya  
#1859 Section 02 [units: 5] Gen Ed Laboratory (GL) 01/17-05/19 R 09:00 AM - 10:30 AM UH0143 Projukti Bhattacharyya  
| #1871  | Section 01 | [units: 4] | Dept. Consent | 01/17-05/19 | M 09:00 AM - 10:30 AM UH0060 | Jean Kowal |  
#1872 Section 02 [units: 4] Gen Ed Laboratory (GL) 01/17-05/19 M 11:00 AM - 12:30 PM UH0600 | Jean Kowal | GEOLOGY 101 ELEMENTS OF GEOLOGY (GL) ... An introduction to the study of the earth. Emphasis is placed on: (1) the materials which make up the earth, (2) the internal and external processes which affect the earth, (3) the length of geologic time, and (3) the methods of science, especially as they apply to the study of the Earth. One half-day field trip in the immediate area is required. An optional field trip, requiring a transportation fee, will be conducted to the Baraboo Hills region. Three hours of lecture and two hours of laboratory per week.  
COREQ: MATH 141 OR MATH 140 OR WAIVER  
#1863 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM) 01/17-05/19 MWF 01:00 PM - 01:50 PM UH0140 | Rex Hanger |  
#1864 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM) NOTE: This class will be taught on the web and you must have an active UWW email account to take this class. A week or two before the class begins, information on how to access the class will be mailed to your UWW email account. Required additional course fee is $150. 01/17-05/19 Arranged Arranged WEB BASED | Rex Hanger | GEOLOGY 204 EARTH AND LIFE HISTORY (GM) ... A study of the changes in the Earth’s crust and life through geologic time and the methodology used in reconstructing Earth history, including plate tectonics, organic evolution and stratigraphy. A special fee will be assessed to cover transportation costs for those students selecting to participate on an optional field trip.  
COREQ: MATH 141 OR MATH 140 OR WAIVER  
#1868 Section 01 [units: 3] Gen Ed Math/Natural Sciences (GM) 01/17-05/19 MW 03:30 PM - 04:45 PM UH0060 | Projukti Bhattacharyya | GEOLOGY 301 ENVIRONMENTAL GEOLOGY (GM) ... A study of geological phenomena such as earthquakes, volcanism, mass movements, river processes, coastal processes etc. and their impacts on society and environment. Special emphasis will be placed on examining remedial measures against geological hazards and how human actions influence natural geological processes. Three lecture hours per week.  
#1869 Section 02 [units: 3] Gen Ed Math/Natural Sciences (GM) 01/17-05/19 TR 03:30 PM - 04:45 PM UH0060 | Projukti Bhattacharyya | GEOLOGY 492 FIELD STUDIES IN GEOLOGY ... Field studies of classic geologic regions. Emphasis will be placed on training in the basic techniques and methods of field studies, recognition and interpretation of geologic structures, and the use of field observations to develop both geologic understanding of the region studied and geologic reasoning ability. Students will be responsible for the cost of the university van rental and other trip expenses. Repeatable 3 times in the major and degree, up to 9 credits total.  
COREQ: GEOLOGY 100 OR CONSENT OF INSTRUCTOR  
#1862 Section 01 [units: 1-3] NOTE: Field excursion: March 4-10Cost: $850.00 | Dept. Consent | 01/17-05/19 M 06:00 PM - 08:50 PM UH0063 | Rex Hanger | Central and West Texas |
| #1892 | Section 02 | [units: 1-3] | 01/17-05/19 | Arranged | Arranged | Rex Hanger |
| #1893 | Section 03 | [units: 1-3] | 01/17-05/19 | Arranged | Arranged | Prajukti Bhattacharyya |

**GEOLGY 493 INTERNSHIP IN GEOLOGY** ... Students will be placed in an outside private or governmental agency where they will utilize geographic techniques in approaching practical problems relevant to the agency's mission. An on-campus seminar with fellow interns and the supervisory instructor is required.

**GEOLGY 498 INDEPENDENT STUDY** ... Study of a selected topic or topics under the direction of a faculty member. Repeatable.

**GEOLGY 498R INDEPENDENT STUDY - UNDERGRADUATE RESEARCH** ... Study of a selected topic or topics under the direction of a faculty member. Repeatable.

**GEOLGY 499 GEOLOGY THESIS** ... Individual research for major writing a thesis under direct supervision of a member of the faculty. Available only for senior students.