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<th>Class#</th>
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**GEOGRPY 100** INTRODUCTION TO GEOGRAPHY ... Introduction to Geography introduces students to the specialties within geography, outlines the academic tracks within the major and associated requirements, and explores public and private career opportunities in the field of geography. Required of all majors at earliest opportunity.

**PREREQ:** DECLARED GEOGRAPHY MAJOR

**#1900** Section 01 [units: 1]  
09/04/21-12/21  
T  
06:15 PM - 07:45 PM  
UH0143  
Peter M Jacobs

**GEOGRPY 210** PHYSICAL GEOGRAPHY ... 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.

**COREQ:** MATH 141 OR WAIVER

**#1901** Section 01 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
M  
09:00 AM - 10:45 AM  
UH0160  
Dale K Splinter

**#1925** Section 02 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
T  
09:30 AM - 11:10 AM  
UH0160  
John D Frye

**#1922** Section 03 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
W  
09:00 AM - 10:45 AM  
UH0160  
Dale K Splinter

**#1923** Section 04 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
R  
09:30 AM - 11:10 AM  
UH0160  
John D Frye

**#1934** Section 05 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
M  
02:15 PM - 03:55 PM  
UH0160  
ALISA L HASS

**#1945** Section 06 [units: 5]  
Gen Ed Laboratory (GL)  
NOTE: Required additional course fee is $25.  
09/04/21-12/21  
F  
09:00 AM - 10:45 AM  
UH0160  
John D Frye

**GEOGRPY 230** HUMAN GEOGRAPHY ... A systematic study of human land relationships highlighting the diversity of the elements that make up the cultural landscape in various regions.

**#1902** Section 01 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
TR  
09:30 AM - 10:45 AM  
UH0143  
Margo P Kleinfeld

**#1926** Section 02 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
TR  
12:30 PM - 01:45 PM  
UH0143  
Margo P Kleinfeld

**#1937** Section 03 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
MWF  
09:55 AM - 10:45 AM  
UH0143  
Jonathan Burkham

**#1947** Section 04 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
MWF  
11:00 AM - 11:50 AM  
UH0143  
Jonathan Burkham

**GEOGRPY 245** GENDER AND GEOGRAPHY ... Human geographies will be studied through the lens of gender along with gender relations at home and abroad. Content is organized according to a variety of spatial scales including the body, home, city, and world. Cases investigated at the global scale include gendered livelihoods and migration, nationalism and war, and environmental issues.

**#2371** Section 01 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
MW  
02:15 PM - 03:30 PM  
UH0150  
Margo P Kleinfeld

**GEOGRPY 250** GEOGRAPHY OF WISCONSIN ... A systematic treatment of physical and cultural geographic phenomena. Emphasis is placed on the interrelationships and interactions of these phenomena from place to place within the state.

**#1903** Section 01 [units: 3]  
Gen Ed Social Science (GS)  
09/04/21-12/21  
MW  
08:50 AM - 09:40 AM  
UH0150  
Peter M Jacobs
GEOP GRPY 252 HUMAN ENVIRONMENTAL PROBLEMS ... 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.

GEOP GRPY 270 INTRODUCTION TO 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.

GEOP GRPY 290 SPATIAL ANALYSIS ... Presentation and interpretation of data, use descriptive statistics and measures of spatial patterns, introduction to statistical inference and measures of association, with particular reference to geographic examples. Students will become proficient in using computers to achieve these skills.

GEOP GRPY 320 METEOROLOGY AND CLIMATE ... Begins with fundamental relationships among earth, sun and air. Common myths concerning weather phenomena are dispelled through in-depth explanation in everyday language of the physical laws that govern atmospheric functioning. The course terminates with a survey of world climate regions.

GEOP GRPY 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 of human activities 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.

GEOP GRPY 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.

GEOP GRPY 346 GLOBALIZATION AND THE CITY ... This course will focus on understanding the processes of globalization, urban and regional development theories, emergence of the global city, and influence of globalization on urban development. This course will examine the role of cities across the world and the relationship between urban change and economic, political, and cultural globalization.

GEOP GRPY 352 GEOHAZARDS ... The course will focus on the physical processes that create environmental hazards (e.g. earthquakes, volcanoes, severe weather), the primary controls on their frequency and intensity, and how human decision-making can influence the magnitude of impact that they have when they inevitably occur. Comparisons are made between impacts of hazards on developing versus developed countries.
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<tr>
<td>09/04-12/21</td>
<td>TR</td>
<td>11:00 AM - 12:15 PM</td>
<td>UH0063</td>
<td>John G Patterson</td>
<td>GEOGRPY 362 GEOGRAPHY OF EUROPE</td>
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<td></td>
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<td></td>
<td></td>
<td>A study of the nations, regions, cultures, and traditional and emerging spatial relationships in Europe.</td>
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</table>

Physical and cultural patterns and processes are considered as they relate to the distribution of population and industrial and commercial activities. The European Community and Europe's international role and linkages are investigated.

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

| #1929 Section 01 | (units: 3) | 11:00 AM - 12:15 PM | UH0063 | John G Patterson |

| 09/04-12/21 | TR          | 11:00 AM - 12:15 PM | UH0063 | John G Patterson |

GEOGRPY 370 GEOGRAPHIC INFORMATION SYSTEMS ... 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: GEOGRAPHY 270 OR CONSENT OF INSTRUCTOR

| #1943 Section 01 | (units: 3) | NOTE: Required additional course fee is $25 | UH0063 | Eric D Compas |

| 09/04-12/21 | T          | 02:15 PM - 04:05 PM | UH0106 | Eric D Compas |
| 09/04-12/21 | TR         | 11:00 AM - 11:50 AM | UH0106 | Eric D Compas |

GEOGRPY 377 REMOTE SENSING OF THE ENVIRONMENT ... An introduction to the images, sensors and techniques used to gather and process data on the Earth and other planets, including aerial photography, electro-optical scanners and radar systems. The course will focus on the fundamentals of utilizing remotely sensed data in studying both natural and human induced processes impacting the Earth's surface. Computer applications will be extensively utilized. Field trips are normally taken.

PREREQ: GEOGRAPHY 210 OR CONSENT OF INSTRUCTOR

| #1936 Section 01 | (units: 3) | NOTE: Required additional course fee is $25. | UH0063 | Thomas C Jeffery |

| 09/04-12/21 | MWF         | 09:55 AM - 10:45 AM | UH0106 | Thomas C Jeffery |

GEOGRPY 423 RIVERS AND FLOODS ... Streams and rivers are nested into a hierarchy that is organized by landscape characteristics. This course addresses how watersheds and stream processes influence channel form, the linkages among geomorphology and ecology, and flood magnitude and river management. Inferences are made using spatial and temporal scales.

PREREQ: GEOGRPY 201 OR GEOGRPY 323 OR GEOLOGY 101 OR GEOLOGY 100

| #2376 Section 01 | (units: 3) | UH0106 | Dale K Splinter |

| 09/04-12/21 | TR         | 03:45 PM - 05:00 PM | UH0106 | Dale K Splinter |

GEOGRPY 440 APPLIED GIS: APPLICATIONS FOR BUSINESS AND INDUSTRY ... This course will provide the background necessary to apply Geographic Information Systems software to solve applied business problems. The specific educational objectives of this course are: 1) To provide the student with "hands on" problem solving skills emphasizing, site location, target marketing, sales territory development and network routing; 2) To work with the most widely used Business GIS software package, ArcView GIS and its major extensions.

PREREQ: GEOGRAPHY 270, GEOGRAPHY 370 AND GEOGRAPHY 340 OR CONSENT OF INSTRUCTOR

| #2377 Section 01 | (units: 3) | NOTE: Required additional course fee is $25. | UH0063 | Eric D Compas |

| 09/04-12/21 | TR         | 12:30 PM - 01:45 PM | UH0106 | Eric D Compas |

GEOGRPY 485 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. Prereq: Students with a major or minor program emphasis in geography must have completed a minimum of 14 credits in geography and have the consent of the intern committee. Students of cognate majors must have a minimum of 9 selected credits in geography and consent of the intern committee. Repeatable for a maximum of 6 credits in major and 12 credits in degree.

| #1909 Section 01 | (units: 3-12) | Dept. Consent | UH0063 | Eric D Compas |

| 09/04-12/21 | Arranged | Arranged | Peter M Jacobs |

| #1910 Section 02 | (units: 3-12) | Dept. Consent | UH0063 | Peter M Jacobs |

| 09/04-12/21 | Arranged | Arranged | Thomas C Jeffery |

| #1911 Section 03 | (units: 3-12) | Dept. Consent | UH0063 | Thomas C Jeffery |

| 09/04-12/21 | Arranged | Arranged | Margo P Kleinfield |

| #1927 Section 04 | (units: 3-12) | Dept. Consent | UH0063 | Margo P Kleinfield |

| 09/04-12/21 | Arranged | Arranged | John D Frye |

| #1928 Section 05 | (units: 3-12) | Dept. Consent | UH0063 | John D Frye |

| 09/04-12/21 | Arranged | Arranged | Dale K Splinter |

| #1931 Section 07 | (units: 3-12) | Dept. Consent | UH0063 | Dale K Splinter |

| 09/04-12/21 | Arranged | Arranged | Jeffrey A Zimmerman |

| #1938 Section 08 | (units: 3-12) | Dept. Consent | UH0063 | Jeffrey A Zimmerman |

| 09/04-12/21 | Arranged | Arranged | Jeffrey A Zimmerman |

GEOGRPY 491 TRAVEL STUDY ... Variable topics. Faculty-led field courses.

| #5345 Section 01 | (units: 1-3) | Dept. Consent | HH1312 | Andy P Ciganek |

| 09/04-12/21 | T         | 03:45 PM - 05:45 PM | HH1312 | Andy P Ciganek |

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

| #1912 Section 01 | (units: 1-3) | Dept. Consent | UH0063 | Eric D Compas |

<p>| 09/04-12/21 | Arranged | Arranged | Eric D Compas |</p>
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<td>Jeffrey A Zimmerman</td>
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**Geology**

GEOLGY 101 ELEMENTS OF GEOLOGY ... An introduction to the study of the earth. Emphasis is place 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 140 OR WAIVER

GEOLGY 203 VOLCANOES ... The course examines the processes that lead to different types of volcanic activities, role of volcanism on development of continents, oceans, and atmosphere, and its various impacts on the biosphere on planet earth. Volcanism on other planets and satellites within the solar system will also be explored. Special emphasis will be place on volcanoes as major economic resources and potential alternate energy sources.

PREREQ: GEOLGY 100 OR GEOLGY 101

GEOLGY 204 EARTH AND LIFE HISTORY ... 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 140 OR WAIVER

GEOLGY 301 ENVIRONMENTAL GEOLOGY ... 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.

GEOLGY 310 ROCKS AND MINERALS ... This course will study the formation processes of common rocks and minerals, their physical properties and their various uses will be covered in detail. Rock and mineral identification techniques will be especially emphasized during the laboratory sessions. Students will be expected to devote significant amounts of time towards the lab assignments.

PREREQ: GEOLGY 100 OR GEOLGY 101

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

PREREQ: EIGHT CREDITS IN GEOLOGY OR CONSENT OF INSTRUCTOR AND PROGRAM COORDINATOR

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

PREREQ: EIGHT CREDITS IN GEOLOGY OR CONSENT OF INSTRUCTOR AND PROGRAM COORDINATOR
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<td>Juk Bhattacharyya</td>
<td>GEOLOGY 499 GEOLOGY THESIS ... Individual research for major writing a thesis under direct supervision of a member of the faculty. Available only for senior students. PREREQ: SENIOR STATUS</td>
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