GEOGRAPHY: The study of earth as the home of humanity.
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**Advisors**

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COURSE LIST

Atmospheric Sciences
Atmospheric Sciences 2940: Basic Meteorology
Atmospheric Sciences 5901: Climate System Modeling
Atmospheric Sciences 5950: Atmospheric Thermodynamics
Atmospheric Sciences 5951: Dynamic Meteorology I
Atmospheric Sciences 5952: Dynamic Meteorology II

Geography
GEOG 1900: Extreme Weather and Climate
GEOG 2100: Human Geography
GEOG 2200: Mapping Our World
GEOG 2400: Economic and Social Geography
GEOG 2500: Cities and their Global Spaces
GEOG 2750: World Regional Geography
GEOG 2800: Our Global Environment
GEOG 2960: Introduction to Physical Geography
GEOG 3300: Transportation Security
GEOG 3597.01: World Urbanization
GEOG 3597.02: Integrated Earth Systems: Confronting Global Change
GEOG 3597.03: Environmental Citizenship
GEOG 3600: Space, Power and Political Geography
GEOG 3601: Global Politics and the Modern Geopolitical Imagination
GEOG 3701: The Making of the Modern World
GEOG 3702: Life and Death Geographies: Global Population
Dynamics
GEOG 3750: Geography of North America
GEOG 3751: Geography of Ohio
GEOG 3752: Geography of Latin America
GEOG 3753: Geography of the European Union
GEOG 3754: Geography of the Former Soviet Union
GEOG 3800: Geographical Perspectives on Environment and Society
GEOG 3900: Global Climate Change: Causes and Consequences
GEOG 3980: Biogeography: An Introduction to Life on Earth
GEOG 4100: Geographic Inquiry (capstone course)
GEOG 4101: Undergrad Research and Professionalization Seminar

5000-Level Courses
GEOG 5100: Spatial Data Analysis
GEOG 5200(S): Cartography and Map Design
GEOG 5201: GeoVisualization
GEOG 5210: Fundamentals of Geographic Information Systems
GEOG 5212: Spatial Database Design for GIS
GEOG 5222: GIS Programming and Algorithms
GEOG 5223: Design and Implementation of GIS
GEOG 5225: Geographic Applications in Remote Sensing
GEOG 5226: Spatial Simulation and Modeling in GIS
GEOG 5229: Emerging Topics in GIS
GEOG 5275: Locational Analysis
GEOG 5300: Geography of Transportation
GEOG 5401: Economies, Space, and Society
GEOG 5402: Land Use Geography
GEOG 5501: Urban Spaces in the Global Economy
GEOG 5502: The Neoliberal City
GEOG 5601: Foucault, Power, and Governance
GEOG 5602: Urban Political Geography
GEOG 5700: Geography of Development
GEOG 5751: New Worlds of Latin America
GEOG 5752: South Africa: Society and Space
GEOG 5801: Environmental Conservation
GEOG 5802: Globalization and Environment
GEOG 5900: Weather, Climate, and Global Warming
GEOG 5921: Boundary Layer Climatology
GEOG 5922: Microclimatological Measurements
GEOG 5940: Synoptic Meteorology Lab
GEOG 5941: Synoptic Analysis and Forecasting
GEOG 5942: Severe Storm Forecasting

Honors Courses
GEOG 1900H: Extreme Weather and Climate
GEOG 2400H: Economic and Social Geography
GEOG 2750H: World Regional Geography
GEOG 2960H: Introduction to Physical Geography
GEOG 3600H: Space, Power and Political Geography
GEOG 3901H: Global Climate and Environmental Change
*Any Geography course at the 5000-level can fulfill an honors requirement with permission from an honors advisor.
Students pursuing the Geography major must meet the basic course and credit hour requirements as set forth by the College of Arts and Sciences for the Bachelor of Science or the Bachelor of Arts degree.

**BA specializations:**
- Environment & Society
- Urban, Regional, & Global Studies

**BS specializations:**
- Climatic Studies
- Physical Geography
- Spatial Analysis

The General Education requirements for both the BA and BS Geography majors can be found on the Arts and Sciences Advising website.

Requirements for the undergraduate major in Geography (BA and BS):

1. An undergraduate major in Geography is a coherent program of courses amounting to a minimum of 30 hours of course work numbered at the 2000-level or higher.
2. At least 15 of the 30 hours of course work must be numbered at the 4000-level or higher.
3. No more than half of the credit hours on the major program may consist of transfer credit.
4. At least 20 hours of the major program must be offered through the Department of Geography.
5. A grade of "C-" or better is required in order for a course to count as part of the major program. A cumulative GPA of 2.0 or higher is also required for all major course work.
6. At least 30 of the credit hours in the major must consist of graded coursework. Courses graded S/U, such as independent study, internship credit, or undergraduate research credit, can only be used in the major if the number of graded hours remains at 30 or above.

### Honors Geography Program

In order to graduate with honors, a student’s cumulative GPA must be at the minimum set by the Honors Program (currently 3.4). Honors students must have their GE curriculum and major approved by an honors advisor.

Information about the honors curriculum and requirements is available on the College of Arts and Sciences Honors Program website. Honors students are assigned a faculty honors advisor in the Department of Geography (currently Dr. Mathew Coleman) who assists with course scheduling and honors thesis requirements (if applicable).

### BA GEOGRAPHY

#### Environment & Society

**Required courses:**
- GEOG 3800
- GEOG 4101
- GEOG 4100

**Methods Courses (choose two):**
- GEOG 5100
- GEOG 5201
- GEOG 5212
- GEOG 5226

**Physical Geography Courses**
- GEOG 2800 or 2960
- GEOG 3980
- GEOG 3900 or 3901H or 3597.02

**Human Geography Courses**
- GEOG 3702
- GEOG 3597.03
- GEOG 5402
- GEOG 5700
- GEOG 5751
- GEOG 5801
- GEOG 5802

Minimum Program Hours: 33

### BA GEOGRAPHY

#### Urban, Regional & Global Studies

**Required courses:**
- GEOG 2100
- GEOG 4100
- GEOG 4100

**Methods Courses (choose two):**
- GEOG 5100
- GEOG 5201
- GEOG 5212
- GEOG 5226

**Introductory & Intermediate Courses (choose three):**
- GEOG 2400
- GEOG 3300
- GEOG 3601

**Advanced Courses (choose three):**
- GEOG 3702
- GEOG 3750
- GEOG 3751
- GEOG 3752
- GEOG 3753
- GEOG 3754
- GEOG 3597.01
- EARTHSCI 3411

Minimum Program Hours: 33
BS GEOGRAPHY

Climatic Studies

Required Prerequisites or Supplements:
MATH 1151
MATH 1152
PHYSICS 1250
PHYSICS 1251
STATS 2450

Required courses:
ATMOSSC 2940 or GEOG 5900
GEOG 5921
GEOG 5922
GEOG 5940
GEOG 5941
GEOG 5942

Major Electives (choose five):
GEOG 2960 or 2800
GEOG 3900 or 3901H
GEOG 3980
ATMOSSC 5901
ATMOSSC 5950
ATMOSSC 5951
ATMOSSC 5952
GEOG 359702
GEOG 5200
GEOG 5210
GEOG 4101
EARTHSCI 2206
EARTHSCI 4450

Minimum Program Hours: 32

Urbanization is a global phenomenon, and understanding the complex relationships among cities, nations, and regions is vital to continued research in the field.

BS GEOGRAPHY

Physical Geography

Required Prerequisites or Supplements:
MATH 1151
MATH 1152
PHYSICS 1250
STATS 2450

Required courses:
GEOG 2960 or 2800
GEOG 3980
GEOG 3900 or 3901H
ATMOSSC 2940 or
GEOG 5900
GEOG 5100 or 5200 or 5210
EARTHSCI 5550

Major Electives (choose five):
GEOG 5200
GEOG 5201
GEOG 5210
GEOG 5212
GEOG 5226 or 5222 or 5223
GEOG 5225
GEOG 4101

Choice of any 5000 level human GEOG course
GEOG 5921
GEOG 5922
GEOG 5940
GEOG 5941
GEOG 5942
ATMOSSC 5901
ATMOSSC 5950
ATMOSSC 5951
ATMOSSC 5952
GEOG 359702
EARTHSCI 2206
EARTHSCI 4450

Minimum Program Hours: 34

Required Prerequisites or Supplements:
CSE 1114
STATS 2450

Required courses:
GEOG 5100
GEOG 5201
GEOG 5212
GEOG 5200
GEOG 5210
GEOG 4101

Choice of any 3000-5000 human GEOG course
Choice of any 3000-5000 physical GEOG course
CSE 2122 or CSE 2123
EARTHSCI 3310

Minimum Program Hours: 30

BS GEOGRAPHY

Spatial Analysis

Required Prerequisites or Supplements:
CSE 1114
STATS 2450

Required courses:
GEOG 5100
GEOG 5201
GEOG 5212
GEOG 5200
GEOG 5210
GEOG 4101

Major Electives (choose five):
GEOG 5222
GEOG 5223
GEOG 5225
GEOG 5226
GEOG 5229
GEOG 5300
GEOG 5275
GEOG 5402

Choice of any 3000-5000 human GEOG course
Choice of any 3000-5000 physical GEOG course
CSE 2122 or CSE 2123
EARTHSCI 3310

Minimum Program Hours: 30

Urbanization is a global phenomenon, and understanding the complex relationships among cities, nations, and regions is vital to continued research in the field.

Minimum Program Hours: 30
Students pursuing the Atmospheric Sciences major must meet the basic course and credit hour requirements as set forth by the College of Arts and Sciences for the Bachelor of Science degree.

The General Education requirements for the Atmospheric Sciences major can be found on the Arts and Sciences Advising website.

Requirements for the undergraduate major in Atmospheric Sciences:

1. An undergraduate major in Atmospheric Sciences is a coherent program of courses amounting to a minimum of 32 hours of course work numbered at the 2000-level or higher.

2. At least 24 of the 30 hours of course work must be numbered at the 4000-level or higher.

3. No more than half of the credit hours on the major program may consist of transfer credit.

4. At least 20 hours of the major program must be offered through the Department of Geography.

5. A grade of “C-” or better is required in order for a course to count as part of the major program. A cumulative GPA of 2.0 or higher is also required for all major course work.

6. Major prerequisite courses, such as Physics, Chemistry, and Statistics, require a grade of “D” or better, math courses require a “C-” or higher to move on to the next math course in the sequence.

7. At least 30 of the credit hours in the major must consist of graded coursework. Courses graded S/U, such as independent study, internship credit, or undergraduate research credit, can only be used in the major if the number of graded hours remains at 30 or above.
Honors in Atmospheric Sciences

In order to graduate with honors, a student’s cumulative GPA must be at the minimum set by the Honors Program (currently 3.4). Honors students must have their GE curriculum and major approved by an honors advisor.

Information about the honors curriculum and requirements is available on the College of Arts & Sciences Honors Program website. Honors students are assigned a faculty honors advisor in the Department of Geography (currently Dr. Mathew Coleman) who assists with course scheduling and honors thesis requirements (if applicable).

Atmospheric Sciences, BS

Required Prerequisites or Supplements:
- MATH 1151
- MATH 1152
- MATH 2153
- MATH 2255
- PHYSICS 1250
- PHYSICS 1251
- CHEM 1210
- STATS 2450

Required courses:
- ATMOSSC 2940 or GEOG 5900
- GEOG 5921
- GEOG 5940
- GEOG 5942
- ATMOSSC 5950
- ATMOSSC 5951
- ATMOSSC 5952

Major Electives (choose two):
- ATMOSSC 5901
- GEOG 3900 or 3901H
- GEOG 3597.02
- GEOG 5200
- GEOG 5210
- EARTHSCI 2206
- GEOG 5225
- CIVILEN 5130
- CIVILEN 5420

Minimum Program Hours: 32

Freshman geography students use weather balloons to capture atmospheric data on a sunny day on The Oval.
GIS PROGRAM

Geographic Information Science
Bachelor of Science

Students pursuing the Geographic Information Science major must meet the basic course and credit hour requirements as set forth by the College of Arts and Sciences for the Bachelor of Science degree.

The General Education requirements for the GIS major can be found on the Arts and Sciences Advising website.

Requirements for the undergraduate major in GIS:

1. An undergraduate major in GIS is a coherent program of courses amounting to a minimum of 32 hours of course work numbered at the 2000-level or higher. At least 24 of the 30 hours of course work must be numbered at the 4000-level or higher.

2. No more than half of the credit hours on the major program may consist of transfer credit.

3. At least 20 hours of the major program must be offered through the Department of Geography.

4. A grade of “C-“ or better is required in order for a course to count as part of the major program. A cumulative GPA of 2.0 or higher is also required for all major course work.

5. Major prerequisite courses, such as CSE and Statistics, require a grade of “D” or better.

6. At least 30 of the credit hours in the major must consist of graded coursework. Courses graded S/U, such as independent study, internship credit, or undergraduate research credit, can only be used in the major if the number of graded hours remains at 30 or above.

Honors Major in GIS (BS)

In order to graduate with honors, a student’s cumulative GPA must be at the minimum set by the Honors Program (currently 3.4). Honors students must have their GE curriculum and major approved by an Honors advisor.

Information about the honors curriculum and requirements is available on the College of Arts and Sciences Honors Program website. Honors students are assigned a faculty honors advisor in the Department of Geography (currently Dr. Mathew Coleman) who assists with course scheduling and honors thesis requirements (if applicable).

GIS Curriculum

Required Prerequisites or Supplements:
CSE 1114
STATS 2450

Required courses:
GEOG 5100 GEOG 5200
GEOG 5201 GEOG 5210
GEOG 5212 GEOG 5222
GEOG 5223 GEOG 5225

Major Electives (choose three):
GEOG 5226 GEOG 5229
GEOG 5*** (One 5000-level topical course in Geography in addition to the courses above)
CSE 2122
CSE 2123
CSE 3241
CSE 5242

Minimum Program Hours: 32
Students pursuing the Air Transportation major must meet the basic course and credit hour requirements as set forth by the College of Arts and Sciences for the Bachelor of Arts degree.

The General Education requirements for the Air Transportation major can be found on the Arts and Sciences Advising website.

Requirements for the undergraduate major in Air Transportation:

1. An undergraduate major in Air Transportation is a coherent program of courses amounting to a minimum of 65 hours of course work numbered at the 2000-level or higher.
2. At least 15 of the 65 hours of course work must be numbered at the 4000-level or higher.
3. No more than half of the credit hours on the major program may consist of transfer credit.
4. Thirty-three hours of the major program consists of Aviation courses, 18 hours consists of Geography courses, and 12 hours are Social Science Electives.
5. A grade of “C-” or better is required in order for a course to count as part of the major program. A cumulative GPA of 2.0 or higher is also required for all major course work.
6. Courses graded S/U, such as independent study, internship credit, or undergraduate research credit, cannot be used in the major program unless approved by an academic advisor.

Honors Major in Air Transportation (BA)

In order to graduate with honors, a student’s cumulative GPA must be at the minimum set by the Honors Program (currently 3.4). Honors students must have their GE curriculum and major approved by an honors advisor.

Information about the honors curriculum and requirements is available on the College of Arts and Sciences Honors Program website. Honors students are assigned a faculty honors advisor in the Department of Geography (currently Dr. Mathew Coleman) who assists with course scheduling and honors thesis requirements (if applicable).
Required courses:
- AVN 2000
- AVN 2200
- AVN 3000
- AVN 3300
- GEOG 2400
- GEOG 5900
- GEOG 5210

- AVN 2100
- AVN 2300
- AVN 3200
- AVN 4500
- GEOG 3300
- GEOG 5200
- GEOG 5300

Aviation Electives
(choose nine hours):
- AVN 2101*
- AVN 2501*
- AVN 3101*
- AVN 4000
- AVN 4101*
- AVN 4300*
- AVN 4400
- AVN 5000
- AVN 5102
- AVN 5194
- AVN 5201
- AVN 3300

- AVN 2102*
- AVN 3100*
- AVN 3193
- AVN 4100*
- AVN 4193
- AVN 4301* or 5101*
- AVN 4800
- AVN 5100*
- AVN 5193
- AVN 5200
- AVN 5300
- AVN 4500

Social Science Electives (choose four courses, at least one from each category):

- Security:
  - COMM 3330
  - INTSTDS 3701
  - POLITSC 4318
  - SOCIOL 3315

- Individual & Social:
  - COMM 2367
  - COMM 3331
  - GEOG 3600
  - INTSTDS 5195
  - PSYCH 4309
  - PSYCH 4521
  - SOCIOL 2370

- COMM 3597.02
- INTSTDS 4700
- POLITSC 4525
- SOCIOL 3302

Institutions:
- COMM 2540
- COMM 3668
- ECON 3048
- ECON 4700
- GEOG 3701
- GEOG 5802
- INSTDS 4800
- INSTDS 5800
- POLITSC 4200
- POLITSC 3115
- POLITSC 4520
- SOCIOL 2309

Minimum Program Hours: 65

NOTES:
- Courses marked with an asterisk* are required for students seeking a professional pilot certification. This will require an additional 15 hours above the minimum requirements for the degree.
- Social science elective courses that are also approved GE courses can overlap with the GE category for which they have been approved. Any social science elective courses that are not approved GE courses can overlap with the GE Social Science and GE Open Option categories only.
Students interested in pursuing a minor must meet the requirements set forth by the College of Arts and Sciences for all minor programs. A minor can be declared by meeting with an advisor in the Department of Geography.

The three minor options within the Department of Geography are:
- Geography Minor
- Atmospheric Sciences Minor
- Geographic Information Science Minor

Students cannot major and minor in the same discipline; however, a Geography major student can minor in Atmospheric Sciences or Geographic Information Science and vice versa.

Requirements for minors within the Department of Geography include:
1. At least 14 credit hours of graded course work at the 2000-level or higher.
2. At least 6 hours of upper-division course work at the 3000-level or higher.
3. No more than half of the credit hours for the minor may consist of transfer credit.
4. No more than 6 credit hours can overlap between the GE and the minor.
5. Each minor completed must contain a minimum of 12 hours distinct from the major and/or additional minors (i.e., minors that require more than 12 credit hours may overlap those hours beyond 12 with the major or with another minor.)
6. A grade of “C-” or better is required in order for a course to count as part of the minor. A cumulative GPA of 2.0 or higher is also required for all minor course work.
7. No more than 3 credit hours of course work graded S/U may count toward the minor.

### Geography Minor Curriculum

**Requirements:**
Choose five courses in GEOG or ATMOSSC

No more than two courses can be at the 2000-level
At least one course must be 4000-level or higher

**Sample Plans**

**Our Urban World**

**Foundational Course:** GEOG 2500
**Minor Electives:**
GEOG 2400  GEOG 2750
GEOG 3600  GEOG 3701
GEOG 3702  GEOG 3750
GEOG 5300  GEOG 5401
GEOG 5402  GEOG 5501
GEOG 5502  GEOG 5602
GEOG 5700

**Global Inequality**

**Foundational Course:** GEOG 2100
**Minor Electives:**
GEOG 2400  GEOG 2750
GEOG 2750  GEOG 3597.01
GEOG 3600  GEOG 3601
GEOG 3701  GEOG 3702
GEOG 3750  GEOG 3752
GEOG 3800  GEOG 3900
GEOG 5401  GEOG 5501
GEOG 5502  GEOG 5601
GEOG 5602  GEOG 5700

**Environment, Sustainability, and Development**

**Foundational Course:** GEOG 2800
**Minor Electives:**
GEOG 3597.03  GEOG 3702
GEOG 3751  GEOG 3800
GEOG 3900  GEOG 3901H
GEOG 3980  GEOG 5300
GEOG 5401  GEOG 5402
GEOG 5700  GEOG 5801
GEOG 5802

**Networks, Locations, and Economies**

**Foundational Course:** GEOG 2400
**Minor Electives:**
GEOG 2100  GEOG 2200
GEOG 3300  GEOG 3597.01
GEOG 3600  GEOG 3750
GEOG 3751  GEOG 3752
GEOG 3753  GEOG 5275
GEOG 5300  GEOG 5401
GEOG 5402  GEOG 5501
GEOG 5700  GEOG 5802

**Climate Change**

**Foundational Course:**
GEOG 3900 or 3901H
**Minor Electives:**
ATMOSSC 2940  GEOG 2800
GEOG 2960  GEOG 3597.02
GEOG 3597.03  GEOG 3800
GEOG 3980  GEOG 5210
GEOG 5225  GEOG 5801
GEOG 5900
Atmospheric Sciences Minor Curriculum

Required Courses:
ATMOSSC 2940 or GEOG 5900

Minor Electives (choose four):
GEOG 5921 GEOG 5922
GEOG 5940 GEOG 5941
GEOG 5942
ATMOSSC 5950
ATMOSSC 5951
ATMOSSC 5952
ATMOSSC 5901
GEOG 3900 or 3901H

GIS Minor Curriculum

Required courses:
GEOG 5100
GEOG 5200
GEOG 5210
GEOG 5212 or 5225

Minor Electives (choose two):
GEOG 5201 GEOG 5212
GEOG 5222 GEOG 5223
GEOG 5225 GEOG 5226
GEOG 5229 GEOG 5275
GEOG 5300 GEOG 5402

“The study of geography is about more than just memorizing places on a map. It’s about understanding the complexity of our world, appreciating the diversity of cultures that exists across continents. And in the end, it’s about using all that knowledge to help bridge divides and bring people together.”

—President Obama
2012
Internships

The Department of Geography encourages students to experience the practical side of their academic endeavors by becoming involved in paid or unpaid internships. There are a myriad of different options available to students searching for internships within the disciplines of Geography, Atmospheric Sciences, Geographic Information Science and Air Transportation. Students have held positions with Fortune 500 companies, local non-profit organizations, government agencies, the National Weather Service and local television stations.

Students are encouraged to visit the departmental website for a listing of available internship and job positions. A departmental listserv exists to disseminate information about many internship and volunteer positions. It is also highly recommended that students meet with an academic advisor in the Department of Geography to receive information about companies that have recruited Ohio State students in the past.

Arts and Sciences Career Services
asccareerservices.osu.edu

Department of Geography
geography.osu.edu/careers

Center for Aviation
aviation.osu.edu/students/internships

Federal Government Jobs
usajobs.gov

Association of American Geographers
aag.org

Graduate School

Students who plan to pursue a graduate program in geography should consult frequently with their faculty advisor and other professors. As a major in the Department of Geography at Ohio State, you have the opportunity to prepare under the guidance of some of the discipline’s foremost scholars and researchers. If you have the intellectual ability, skills, interest and energy to pursue advanced study, your training here will be invaluable.

Students who graduate from the Department of Geography pursue graduate school in a number of fields. For example, our graduates have earned advanced degrees not only in geography, meteorology, and GIS, but also in education, public policy, geodetic science, environment and natural resources, business administration, international relations and public health.

Most graduate programs are highly competitive. Your best chance for admission comes through careful planning of a strong curriculum, a high GPA, well-developed study habits, exceptional communication skills, good entrance examination scores, strong reference letters, and appropriate extra-curricular activities. You should work closely with your faculty and academic advisors throughout your undergraduate career to prepare for your graduate school admission.
**Education Abroad**

The Ohio State University and the Department of Geography have established close ties with a large number of universities from around the world (including Antarctica!) to provide students with academically rigorous study, research and internship abroad opportunities. The Department of Geography currently hosts two education abroad programs, a full summer term program in Scandinavia and a 4-week May term program in Cyprus. There are also numerous programs organized through the Office of International Affairs that award credit toward degrees in Geography, Atmospheric Sciences, Geographic Information Science, and Air Transportation. Students who are interested in education abroad are encouraged to schedule a meeting with their academic advisor early in their academic career to establish which programs may best suit their academic and personal interests.

Office of International Affairs: oia.osu.edu

**Research Thesis**

*Honors Research Distinction.* In order to graduate with honors research distinction, students must be enrolled in the ASC Honors Program, which requires completion of the honors course work requirement. If all program and thesis requirements are met, the phrase “with honors research distinction” will appear on the student’s diploma and transcript.

To graduate with honors research distinction, students must satisfy the following requirements:

- Identify an Ohio State faculty member to serve as your project advisor. The project advisor will provide guidance to you throughout the research process. The honors advisor in the Department of Geography, Dr. Mathew Coleman, can assist with this process.
- Submit the Application for Graduation with Honors Research Distinction at least two semesters before graduation.
- Complete a minimum of four credit hours of Geography 4999H.
- Successfully defend the thesis during an oral examination.
- Maintain a cumulative major GPA of a 3.5 or higher.
- Graduate with a minimum 3.4 cumulative GPA on at least 60 graded Ohio State credit hours.

*Research Distinction.* Students not enrolled in the Honors Program can still graduate with the phrase “with research distinction” on their diploma and transcript.

To graduate with research distinction, students must satisfy the following requirements:

- Identify an Ohio State faculty member to serve as your project advisor. The project advisor will provide guidance to you throughout the research process. Academic advisors in the Department of Geography can assist with this process.
- Submit the Thesis Application at least one term before graduation.
- Apply to graduate, early in your final term, with Ed Quinn in the College of Arts and Sciences.
- Complete a minimum of 60 graded hours at Ohio State.
- Complete a minimum of four credit hours of Geography 4999.
- Successfully defend the thesis during an oral examination.
- Graduate with a minimum 3.0 cumulative GPA.

Arts and Sciences Honors Program Research: aschonors.osu.edu/research

Arts and Sciences Advising: ascadvising.osu.edu/research-thesis

Undergraduate Research Office: undergradueresearch.osu.edu

Students spell “OHIO” at the base of a tropical glacier in Peru.
Named in honor of one of America’s most famous explorers, the Byrd Polar Research Center conducts field work in the Antarctic.

The Byrd Polar and Climate Research Center

Named in honor of one of America’s most famous explorers, the Byrd Polar Research Center is recognized internationally as a leader in polar and alpine research. Research at the Center focuses on the role of cold regions in the global climate system, with major themes focused on:

- climatic reconstruction of glacial and post-glacial times
- polar ice-sheets: dynamics, history and ice-atmosphere interactions
- high-latitude landform evolution, soils and hydrology
- geologic evolution of Antarctica
- investigations of ocean dynamics
- history of polar exploration

Scientists at the Byrd Center are reconstructing past climate by studying chemical records preserved in ice cores collected from glaciers in Greenland, Asia, North and South America, and Antarctica. Fossils provide important evidence for much older changes in climate, and plant fossils collected in the Transantarctic Mountains indicate that parts of the southern continent were once forested.

Environmental studies include programs in Alaska and Russia which are concerned with hydrologic and geochemical cycles in permafrost terrains and interactions with the biosphere. Modern processes such as the motion of the great ice sheets and the circulation of storm systems around Antarctica are being studied with sophisticated computer models and with satellite-borne sensors capable of imaging the surface through cloud cover and during the long polar night.

The center encourages the involvement of undergraduate and graduate students in its research programs.

bprc.osu.edu
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facebook.com/byrdpolar
Center for Urban and Regional Analysis

CURA is an interdisciplinary group of scholars in social, natural, and environmental sciences; applied economics; agriculture; engineering; health and medical professions; and the humanities. CURA offers a wide range of support services for research that applies to urban and metropolitan areas, rural areas, and broader regional issues. Some of their services include GIS data processing, spatial analysis and cartographic services.

CURA’s primary mission is to serve as a bridge across academia, industry, and the policy sector by providing spatial analysis of economic, social, environmental, and health issues in urban and regional settings in Ohio and beyond. Graduate students have the opportunity to serve as research assistants with CURA.

cura.osu.edu
facebook.com/OSUCURA
@OSUCURA

CURA hosts speakers—like Richard Florida (below)—throughout the year to expose students and faculty to innovative research concepts and fundamentals of GIS.

Undergraduate Student Organizations

OSU Meteorology Club

In 1996, Atmospheric Science students formed the Meteorology Club to enhance their educational experiences through interactions with operational and research meteorologists. The club’s largest activity each year is the annual Ohio Severe Weather Symposium where experts discuss all aspects of severe weather in an open forum. The symposium provides an excellent opportunity for students to interact with experts from around the country. The growth and success of the Met Club has given students hands-on leadership experience while also enhancing the reputation of the undergraduate meteorology program.

u.osu.edu/metclub
facebook.com/OSUmetclub
@osumetclub

Scarlet & Gray Forecasting Team

The newly formed Scarlet & Gray Forecasting Team is a student-run organization designed to provide practical forecasting experience and develop communication skills that are extremely valuable for a career in meteorology. The forecasting team meets on a weekly basis to analyze current weather observations and model data in order to compose 3-day forecasts for the central Ohio area. This setting provides students with real-world applications in forecasting and familiarizes students with local forecast trends and model guidance.

Geography Club

The Geography Club was re-established as a student organization in 2015 and has a six-member executive committee who provide leadership for the organization. The Geography Club’s mission is to organize guest speakers, alumni events, social activities, and networking opportunities for all students interested in careers within Geography and Geographic Information Science.

Email
geographyclubohiostate@gmail.com
An annual trip to Great Basin National Park in Nevada exposes students, faculty, and staff to stunning physical geography.