

# PHYSICAL GEOGRAPHY CONCENTRATION

## Geography, Bachelor of Science with a Concentration in Physical Geography Requirements

### Code Title Credits

#### GENERAL EDUCATION REQUIREMENTS - 46 Hours Required

Minimum of "C-" required

#### Fundamental Academic Skills 15

ENGL 1150	ENGLISH COMPOSITION I
ENGL 1160	ENGLISH COMPOSITION II
ENGL 3050	WRITING FOR THE WORKPLACE
or ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES

(Or another advisor-approved Writing in the Discipline course)

CMST 1110	PUBLIC SPEAKING FUNDS
or CMST 2120	ARGUMENTATION AND DEBATE

MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING
or MATH 1100	DATA LITERACY AND VISUALIZATION
or MATH 1130	QUANTITATIVE LITERACY
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT
or STAT 1100	DATA LITERACY AND VISUALIZATION
or STAT 1530	ELEMENTARY STATISTICS

#### Distribution Requirements 31

Natural Science - From two disciplines and at least one lab - 7 hrs

Social Science - From two disciplines - 9 hrs

Humanities and Fine Arts - From two disciplines- 9 hrs

Global Diversity - 3 hrs

US Diversity - 3 hrs

#### MAJOR REQUIREMENTS

\*\*Course will satisfy UNO's General Education requirement

^Course requires pre-requisite(s)

#### Geography Major with a Concentration in Physical Geography - 48-61 Hours Required

#### Required Coursework 24

GEOG 1000	WORLD REGIONAL GEOGRAPHY (**)
GEOG 1020	INTRODUCTION TO HUMAN GEOGRAPHY (**)
GEOG 1030	OUR DYNAMIC PLANET: INTRODUCTION TO PHYSICAL GEOGRAPHY (**)
GEOG 1050	HUMAN-ENVIRONMENT GEOGRAPHY (^)
GEOG 3530	CARTOGRAPHY AND DATA VISUALIZATION
GEOG 4620	GEOGRAPHICAL FIELD STUDIES (Can also apply to the upper-level Global or North American category, depending on the field study destination) <sup>1</sup>
STAT 1530	ELEMENTARY STATISTICS (^)

#### 1 Geographical Field Studies Requirement

Optional method of completing GEOG 4620: Students who have completed study abroad, or military service for more than six months outside the USA can complete the course without going on the multiple day field trip. Contact the department for the details regarding this alternative method.

#### Required Course: 4

GEOG 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)
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#### Additional math requirement. Select one 3-5

MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)
MATH 1950	CALCULUS I (^)

#### Two Additional Physical Geography courses\* 6-8

GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT
GEOG 3510	METEOROLOGY
GEOG 4010	CONSERVATION OF NATURAL RESOURCES
GEOG 4100	BIOGEOGRAPHY
GEOG 4260	PROCESS GEOMORPHOLOGY
GEOG 4320	CLIMATOLOGY
GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION
GEOG 4340	WATER RESOURCES
GEOG 4350	GLOBAL CLIMATE CHANGE
GEOG 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT
GEOG 4640	CRITICAL ZONE SCIENCE
GEOG 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS

Only one course may count toward additional majors.

- Courses can double-count for Geography diversity requirements below

Recommended minors: Physics, Chemistry, Geology, Biology, Environmental Science, Sustainability, Emergency Management & Disaster Science

#### Geography diversity requirements

#### Select a minimum of one course from each of the groups of Geography Diversity courses below 15-16

#### Physical Geography:

GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGMENT (^)
GEOG 3510	METEOROLOGY (** ^)
GEOG 4010	CONSERVATION OF NATURAL RESOURCES
GEOG/GEOL 4040	GEOARCHAEOLOGY
GEOG/BIOG/GEOL 4100	BIOGEOGRAPHY (^)
GEOG 4260	PROCESS GEOMORPHOLOGY
GEOG 4320	CLIMATOLOGY
GEOG 4330	SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION
GEOG 4340	WATER RESOURCES
GEOG 4350	GLOBAL CLIMATE CHANGE
GEOG/ENVN/GEOL/BIOG 4610	ENVIRONMENTAL MONITORING AND ASSESSMENT
GEOG 4640	CRITICAL ZONE SCIENCE

#### Human Geography:

GEOG 3040	HEALTH & MEDICAL GEOGRAPHY
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GEOG 3130	ECONOMIC GEOGRAPHY
GEOG 3440	NEBRASKA NATURAL RESOURCES MANAGEMENT (^)
GEOG 3930	POLITICAL GEOGRAPHY
GEOG 4010	CONSERVATION OF NATURAL RESOURCES
GEOG 4120	URBAN GEOGRAPHY
GEOG/WGST 4150	GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)
GEOG 4160	URBAN SUSTAINABILITY (^)
GEOG 4170	ADVANCED CULTURAL GEOGRAPHY
GEOG 4550	GEOGRAPHY OF ECONOMIC GLOBALIZATION
GEOG/PA/BIOL/ ENVN 4820	INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)

**Global Perspectives:**

GEOG 3000	TRAVEL STUDY IN GEOGRAPHY
GEOG 3030	GEOGRAPHY OF AFRICA (^)
GEOG 3050	GEOGRAPHY IN FILM (^)
GEOG 3070	GEOGRAPHY OF LATIN AMERICA (^)
GEOG 3080	EAST & SOUTHEAST ASIA (^)
GEOG 3230	GEOGRAPHY OF EUROPE (^)
GEOG 3240	GEOGRAPHY OF RUSSIA AND ITS NEIGHBORS (^)

**North American Perspectives:**

GEOG 3330	UNITED STATES & CANADA (^)
GEOG 4230	GREAT PLAINS & NEBRASKA
GEOG 4530	HISTORICAL GEOGRAPHY OF THE UNITED STATES (^)

**Geospatial Science:**

GEOG 2620	AERIAL PHOTOGRAPHIC INTERPRETATION
GEOG 4020	SPATIAL ANALYSIS IN GEOGRAPHY
GEOG 4030	COMPUTER MAPPING AND VISUALIZATION (^)
GEOG 4050	GEOGRAPHIC INFORMATION SYSTEMS I (^)
GEOG 4630	ENVIRONMENTAL REMOTE SENSING (^)
GEOG 4660	GEOGRAPHIC INFORMATION SYSTEMS II (^)

**College Breadth (choose one option) 15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ hours

Option 2: Additional General Education Requirements - 19+ hours

Additional quantitative literacy - 3 hours

Additional Social Science Gen. Ed. from 3rd Discipline - 3 hours

Additional Humanities Gen. Ed. from 3rd Discipline - 3 hours

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ Lab - 4-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

**Bachelor of Science Cognate Requirement 0-15**

See Advisor

**ELECTIVES**

Elective hours as required to reach a total of 120 hours