

PHYSICAL GEOGRAPHY CONCENTRATION

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

Code Title Credits

GENERAL EDUCATION REQUIREMENTS - 34 Hours Required

Minimum of "C-" required

Fundamental Skills 15

Writing – 6 hrs.

ENGL 1150 ENGLISH COMPOSITION I

ENGL 1160 COLLEGE RESEARCH AND INFORMATION LITERACY

Oral Communication – 3 hrs.

CMST 1110 PUBLIC SPEAKING FUNDS

or CMST 2120 ARGUMENTATION AND DEBATE

Quantitative Literacy – 3 hrs.

MATH 1120 INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING

or MATH 1130 QUANTITATIVE LITERACY

or MATH 1140 QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS

or MATH 1300 COLLEGE ALGEBRA WITH SUPPORT

Data Literacy – 3 hrs.

Select one from the following:

STAT 1100 DATA LITERACY AND VISUALIZATION

STAT 1530 ELEMENTARY STATISTICS

Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.

Breadth of Knowledge 13

Social Science – 3 hrs.

Humanities – 3 hrs.

Natural & Physical Science (must complete a lab) – 4 hrs.

Arts – 3 hrs.

Individual and Social Responsibility 6

Cultural Knowledge – 3 hrs.

Civic Knowledge and Engagement – 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) ¹

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 (**)

Select one of the following Mathematics courses: 3-5

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

MATH 1950 CALCULUS I (^)

GEOGRAPHY DIVERSITY REQUIREMENTS FOR PHYSICAL GEOGRAPHY CONCENTRATION

Only one course may count toward additional majors.

Select at least three courses in Physical Geography 9-12

GEOG 3440 NEBRASKA NATURAL RESOURCES MANAGMENT

GEOG 3510 & GEOG 3514 METEOROLOGY and INTRODUCTION TO METEOROLOGY LABORATORY (**)

GEOG 4010 CONSERVATION OF NATURAL RESOURCES

GEOG/GEOL 4040 GEOARCHAEOLOGY

GEOG/BIOL/GEOL 4100 BIOGEOGRAPHY

GEOG/GEOL 4200 WATER QUALITY (^)

GEOG 4260 PROCESS GEOMORPHOLOGY

GEOG 4320 CLIMATOLOGY

GEOG/GEOL 4330 SOIL GENESIS, MORPHOLOGY AND CLASSIFICATION (^)

GEOG 4340 WATER RESOURCES (^)

GEOG/ENVN 4350 GLOBAL CLIMATE CHANGE (^)

GEOG/ENVN/GEOL/BIOL 4610 ENVIRONMENTAL MONITORING AND ASSESSMENT

GEOG/GEOL 4640 CRITICAL ZONE SCIENCE

Choose at least one course in Human Geography 3

GEOG 3020 HEALTH & MEDICAL GEOGRAPHY (^)

GEOG/ECON 3130 ECONOMIC GEOGRAPHY

GEOG 3440 NEBRASKA NATURAL RESOURCES MANAGMENT (^)

GEOG 4010 CONSERVATION OF NATURAL RESOURCES

GEOG 4120 URBAN GEOGRAPHY

GEOG 4130 POLITICAL GEOGRAPHY (^)

GEOG/WGST/ENR 4150 GEOGRAPHY, GENDER AND ENTREPRENEURSHIP (^)

GEOG 4160 URBAN SUSTAINABILITY (^)

GEOG 4170 ADVANCED CULTURAL GEOGRAPHY

GEOG/WGST 4210 GEOGRAPHIES OF SEXUALITIES

GEOG 4550 GEOGRAPHY OF THE WORLD ECONOMY (^)

GEOG/ENVN/BIOL 4820 INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (^)

Choose at least one course in Global Perspectives 3

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

Choose at least one course in North American Perspectives 3

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

Choose at least one course in Geospatial Science 3

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 (^)

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

College Breadth (choose one option) 15-30+

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

Option 2: Additional General Education Requirements - 18+ hours

Additional quantitative literacy - 3 hours

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

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

HIST 1000 and HIST 1010 - 6 hours

Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

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

Bachelor of Science Cognate Requirement 15

In consultation with a departmental advisor, students select 15 credits of complementary coursework, with at least 6 credits from approved computer science courses.

ELECTIVES

Elective hours as required to reach a total of 120 hours