Department of Geosciences

BS in Earth Science

Education, Research, and Service in Geography, Geology, and Earth Science

Public Interpretation Option

Student's Name_____ Advisor_____ Date_____

University Baccalaureate Core Course (BCC) Requirements (48 credits + WIC course)
Courses must be from BCC approved list. No single course may be used to satisfy more than one area of the Baccalaureate Core even though some courses are approved for more than one area. Up to 15 credits required in the major can also be used to satisfy BCC requirements.

Skills (15 credits)
(9)____WR 121 ____WR II ____Writing/Speech III
(3)____MTH 105 or higher (MTH 251 required)
(3)____ Fitness
____Writing Intensive Course (WIC) (included in credits within the major; GEO 409 required)

Perspectives (27 credits; must be from BCC approved list; no more than two courses from the same department)
(4)____Physical Science with Lab (GEO 101 or 201 required)
(4)____Biological Science with Lab
(4)____Physical or Biological Science with Lab (GEO 102 or 202 required)
(3)____Western Culture
(3)____Cultural Diversity
(3)____Literature and the Arts
(3)____Social Processes and Institutions
(3)____Difference, Power and Discrimination

Synthesis (6 credits; upper division courses from BCC approved list and from different departments)
(3)____Contemporary Global Issues
(3)____Science, Technology, and Society (CSS/GEO 335 required)

Earth Science Major Requirements (81-85 credits)
Substitutions to these requirements can only be made with the written approval of the Head Advisor. Any substitutions should be noted in your file.

Basic Science Skills (30-32 credits):
(4)____MTH 251
(4)____ST 351 or ST 314
(4)____ST 352 or MTH 252
(10)____CH 121 or CH 221 ____CH 122 or CH 222
(8-10)____PH 201 or PH 211 ____PH 202 or PH 212

Geosciences Core Courses (25-26 credits):
(4)____GEO 101 The Solid Earth or GEO 201 Physical Geology
(4)____GEO 102 The Surface of the Earth or GEO 202 Earth System Science
(4)____GEO 322 Surface Processes
(4)____CSS 305 Principles of Soil Science
(3)____CSS/GEO 335 Water Science and Policy
(3)____ OC 331 Intro to Oceanography
(3-4)____ ATS 210 Intro to Atmospheric Sci (3)
or GEO 203 Evolution of Planet Earth (4)
or GEO 323 Climatology (4)

Earth Science Techniques (7-8 credits):
(4)____ GEO 301 Map and Image Interpretation
(3-4)____ GEO 365 Introduction to GIS (4)
or GEO 265 GIS Practicum (3)

Upper Division Earth Science (15 credits, with at least 2 courses from one focus):
Geology Focus:
(4)____ GEO 310 Mineralogy
(4)____ GEO 315 Petrology
(4)____ GEO 340 Structural Geology
(4)____ GEO 430 Geochemistry
Soil Science Focus:
(4)____ CSS 435 Physics of Soil Ecosystems
(4)____ CSS 445 Geochemistry of Soil Ecosystems
(4)____ CSS 455 Biology of Soil Ecosystems
(4)____ CSS 466 Soil Morphology and Classification
Oceanic and Atmospheric Sciences Focus:
(4)____ ATS 420 Atmospheric Science
(3)____ GEO 431 Applied Climatology
(3)____ OC 332 Coastal Oceanography
(3)____ OC 430 Physical Oceanography
(3)____ OC 440 Biological Oceanography
(3)____ OC 450 Chemical Oceanography
(3)____ OC 460 Geological Oceanography
Water Science Focus:
(4)____ CE 412 Hydrology (note the prereqs)
or FE 430 Watershed Processes
(3)____ GEO 432 Applied Geomorphology
(5)____ FW 456 Limnology
(3)____ GEO 483 Snow Hydrology
(4)____ GEO 487 Hydrogeology

Capstone Experience (4 credits)
(1)____ GEO 407 Professional Seminar
(3)____ GEO 409 Contemp. Earth Sci. Issues (WIC)

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3. Public Interpretation Option (35 credits)

3a. Required Courses (9 credits)

(3) ____ FOR 391 Natural Resources Communications
(3) ____ GEO 307 Geology of National Parks
(4) ____ GEO 464 Geoscience Interpretation

3b. Earth Science Electives (11 credits)

(3) ____ GEO 305 Living w/ Active Cascade Volcan.
(3) ____ GEO 308 Global Change and Earth Sciences
(4) ____ GEO 322 Surface Processes and Geomorph.
(3) ____ GEO 380 Earthquakes in the Pacific NW
(4) ____ GEO 427 Volcanology
(4) ____ GEO 461 Geology of Earthquakes
(4) ____ GEO 463 Geophysics and Tectonics
(4) ____ GEO 470 Stratigraphy and Sedimentology
(4) ____ GEO 481 Glacial Geology
(4) ____ GEO 487 Hydrogeology

3c. Interpretation Skills Electives (14 credits)

(3) ____ COMM 312 Advanced Public Speaking
(4) ____ COMM 382 Telemedia Design and Prod.
(4) ____ CS 395 Intermediate Multimedia
(3) ____ FOR 493 Environmental Interpretation
(4)____ GEO 360 Cartography
(4) ____ GEO 410 Internship (Interpretation)
(4) ____ GEO 422 Reconstructing Historic Landscapes
(3) ____ NMC 351 New Media Visualization
(3) ____ SOC 480 Environmental Sociology
(3) ____ WR 362 Science Writing

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4. OSU Graduation Requirements

_____180 total credits
_____60 upper division (course numbered 300 or higher) credits
_____2.00 minimum overall GPA
_____2.00 minimum GPA in major
_____24 upper division credits within the major
_____15 of the upper division credits in the major from regularly listed courses
_____Foreign Language (2 years high school or 2 terms college)
_____Residence requirement--last 45 credits of course work must be from OSU

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