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# Geosciences Collection Development Policy

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# **Geosciences Collection Development Policy**

University Libraries, University of Nebraska-Lincoln Adonna Fleming, November, 2009 Approved: CDC, December 2, 2009

#### I. GENERAL ACADEMIC PROGRAM INFORMATION

The geosciences collection supports the teaching, research and service activities of the entire university community. Primary users are the faculty, staff, and students of the Geosciences Department. Its essential focus is support for the undergraduate and graduate curricula for the Geosciences Department. The collection is supplemented through interlibrary loan services whenever special curriculum and research needs of geosciences faculty and students arise. The UNL Libraries are classed as a regional depository library for U. S. government documents. The geosciences collection contains most publications of the U.S. Geological Survey, including an extensive collection of topographic and geological maps. Although materials are not purchased for the general public, the collection serves many local branches of federal, state, and county agencies, such as the Conservation and Survey Division of the School of Natural Resources, and the Nebraska State Museum.

# **Department of Geosciences**

The department offers study and research opportunities in the geosciences: the study of the earth, air, and water. Faculty conduct research in most sub-disciplines of the geosciences, with an emphasis on the following areas: paleontology, sedimentary geology, paleoclimate and paleoenvironment, meteorology, climatology, instrumentation and techniques, groundwater, surface water, and geochemistry. The geoscience program is interdisciplinary and has close relationships with the Andrill (ANtarctic geological DRILLing) Program, the Water Resource Initiative, the School of Natural Resources, and CALMIT. (Center for Advanced Land Management Information Technologies) Several geoscience faculty hold shared appointments within the School of Natural Resources and life sciences. Fall semester, 2009, enrollment figures show the department has 45 undergraduate majors in geology, 75 undergraduate majors in meteorology-climatology, 22 master students, and 17 PhD students. There are 22 full-time faculty, plus 5 half-time appointments. 890 non-major students are enrolled in geosciences classes, with 683 in geology, and 207 in meteorology-climatology.

# **Degrees offered in Geosciences**

# Geology

Both a Bachelor of Science and a Bachelor of Arts are offered in geology. The B.S. is for those who will continue on to graduate work and become professional geoscientists. The B.A. in geology is beneficial in many other fields, such as teaching at the K-12 and junior college level, urban planning, law, civil engineering, environmental studies, and museum work.

The minor in geology requires 22 credit hours with only 8 credit hours at the 100 level.

# **Meteorology-Climatology**

The department offers a Bachelor of Science in meteorology-climatology. The program combines basic atmospheric science and climatology courses with rigorous training in mathematics, computer science, and physics. The program prepares students, to work in the many government and private agencies associated with this discipline, including the National Weather Service, as well as continue on to graduate work. The program fulfills the recommended curriculum of the American Meteorological Society and the University Corporation for Atmospheric Research.

Two minors are offered with either a meteorology or a climatology emphasis.

#### Geosciences

The department offers a Master of Science and a Doctorate of Philosophy in the geosciences.

### The Collection

To support these programs in the geosciences, the library offers a wide range of materials in both print and electronic format. The focus of the collection is works in geology, paleontology, hydrology, oceanography, meteorology, climatology, atmospheric physics, and complementary sciences. In addition, works in physical geography with an emphasis on geomorphology and landforms are also collected. Bibliographic indexes include GeoRef, and Web of Science. Due to the interdisciplinary nature of research and study in the geosciences, collection development policies in other science fields will overlap in some areas.

## II. GEOGRAPHICAL COVERAGE

Emphasis is on North America, especially midcontinent United States and Canada, Western Europe, the Polar regions, and South America. Other areas are collected selectively.

# III. CHRONOLOGICAL COVERAGE

All periods of geological time. An emphasis is placed on the Quaternary to Present, with a focus on the glacial periods of the Pleistocene.

#### IV. IMPRINT DATE

Emphasis is on current materials. Retrospective collecting is selective to supporting current research or areas of interest.

#### V. FORMAT/TYPE AND LEVEL OF MATERIALS

Most materials are acquired in the form of journals, monographs, and maps. Conference proceedings, field guides, and publications from various local, state, and international geological surveys are collected. In addition, monographic serials of the major geosciences professional associations are collected. Some of these include: the Geological Society of America, The Geology Society (of London), the American Geological Institute, the America Association of Petroleum Geologists, and the American Geophysical Union. Full-text electronic access is the preferred format for the journal collection. Lower division undergraduate textbooks and popular works are excluded unless specifically requested by a faculty member.

#### VI. LANGUAGES

English is the preferred language at all levels of collection intensity. Literature in other languages is acquired when requested.

#### VII. CLASSIFICATION AND INTENSITY LISTING

- G 70.4 Remote sensing of the environment STUDY
- G 575-890 Polar regions RESEARCH
- G 1001-3102 Atlases STUDY
- GA 101-1775 Cartography BASIC
- GA 151 Map reading BASIC
- GB 51-60 Physical geography BASIC
- GB 400 Geomorphology Landforms RESEARCH
- GB 447-448 Climate/Environmental Geomorphology RESEARCH
- GB 451-460 Coasts STUDY
- GB 461-468 Reefs BASIC
- GB 471-478 Islands BASIC
- GB 501-553 Mountains BASIC
- GB 561-564 Fluvial Geomorphology STUDY
- GB 581-588 Glacial Landforms RESEARCH
- GB 661 Water. Hydrology RESEARCH
- GB 2401-2598 Snow. Ice. Glaciers. Icebergs. Snowline. RESEARCH
- GC 11 Oceanography BASIC
- GC 83 Ocean floor. Submarine geology STUDY
- GC 85 Continental shelf STUDY
- GC 201 Dynamics of the sea STUDY
- GC 211-222 Waves STUDY
- GC 231-296 Currents STUDY
- GC 301-376 Tides STUDY
- GC 380-399 Deep-sea deposits RESEARCH
- GC 4001-872 Oceanography. By region BASIC/STUDY
- QB 591 Lunar geology BASIC
- QB 592 Lunar petrology. Lunar minerals BASIC
- QC 861 Meteorology RESEARCH
- QC 884 Geological climate. Paleoclimatology RESEARCH
- QC 885 Atmospheric physics STUDY
- QC 981 Climatology RESEARCH
- QD 931-945 Physical properties of crystals STUDY
- QD 951 Chemical crystallography STUDY
- QE 1-26 Geology RESEARCH
- QE 33 Special aspects of geology as the whole BASIC
- QE 33.2 Remote sensing STUDY
- QE 33.2 Geomathematics STUDY
- QE 33.2 Subsurface geology STUDY

- QE 34 Geology as a profession BASIC
- QE 36 Geological maps STUDY
- QE 38 Environmental geology RESEARCH
- QE 39 Submarine geology RESEARCH
- QE 40 Geological research BASIC
- QE 65-350 Geological divisions BASIC
- QE 70 Arctic regions RESEARCH
- QE 70.5 United States RESEARCH
- OE 185-199 Canada RESEARCH
- QE 200-258 Latin America STUDY
- **QE 260-287.8 Europe STUDY**
- QE 289-319 Asia STUDY
- QE 340-349 Australia & Pacific STUDY
- QE 350 Antarctic regions RESEARCH
- QE 351-366 Mineralogy STUDY
- QE 367 Determinative mineral STUDY
- QE 339 Microscopic mineralogy STUDY
- QE 369.06 Optical mineralogy STUDY
- QE 372 Descriptive mineralogy RESEARCH
- QE 373-385 Geographical divisions STUDY
- QE 389 Special groups of minerals STUDY
- QE 389.6 Clay minerals RESEARCH
- OE 392 Precious stones BASIC
- QE 395 Meteorites BASIC
- QE 420-433 Petrology STUDY
- QE 434 Microscopic analysis of rocks STUDY
- QE 443-456 Petrology (Geographical divisions) STUDY
- OE 461-462 Igneous rocks, volcanic ash, etc. STUDY
- QE 471-472 Sedimentary rocks including clay RESEARCH
- QE 475 Crystalline schists and metamorphic rocks STUDY
- QE 501 Dynamic and structural geology STUDY
- QE 501.4 Paleogeography RESEARCH
- QE 508 Age of the earth. Geologic time. /Including age determination, radioactive dating RESEARCH
- QE 511 Earth's crust. Isostacy RESEARCH
- QE511.5 Plate tectonics RESEARCH
- QE 513 Nuclear geophysics RESEARCH
- QE 515-516 Geochemistry RESEARCH
- QE 522-527 Volcanoes STUDY
- QE 528 Geysers, hot springs, etc. STUDY
- QE 531-545 Earthquakes STUDY
- QE 565 Coral islands and reefs STUDY
- QE 570 Rock weathering RESEARCH
- QE 571 Erosion and deposition RESEARCH
- QE 576 Glaciers and glacial action RESEARCH
- QE 581 Aqueous erosion RESEARCH
- QE 597 Aerial erosion RESEARCH

- QE 599 Landslides STUDY
- QE 601 Structural geology STUDY
- QE 651 Stratigraphic geology RESEARCH
- QE 654-699 By geologic period RESEARCH
- QE 701-714 Paleontology RESEARCH
- QE 719 Micropaleontology RESEARCH
- QE 720 Paleoecology RESEARCH
- QE 721 Paleolinmology RESEARCH
- QE 724-741 Stratigraphic divisions (Archean, etc.) RESEARCH
- QE 743-760 Geographical divisions STUDY
- QE 761 Paleozoology STUDY
- QE 770 Invertebrates RESEARCH
- QE 841 Vertebrates RESEARCH
- QE 901-911 Paleobotany RESEARCH
- QE 915-931 Stratographic divisions RESEARCH
- QE 934-950 Geographical divisions STUDY
- QH 542 Paleobiology RESEARCH
- S 590 Soils BASIC
- S 599 Soil surveys BASIC
- S 599.5 Soil mineralogy BASIC
- TA 705Engineering geology BASIC
- TA 710 Soil mechanics BASIC
- TN 260 Economic or applied geology BASIC
- TN 263 Mineral deposits. Metallic ore deposits BASIC
- TN 269 Exploration geophysics STUDY
- TN 799.948 Nometallic minerals (Coal, gas, petroleum) STUDY
- TR 600 Aerial photography BASIC