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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 American 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
QE 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
QE 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
QE 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. Isostasy 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 Paleolimnology 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 Stratigraphic 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 705 Engineering 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 Nonmetallic minerals (Coal, gas, petroleum) STUDY
TR 600 Aerial photography BASIC