

# Geology and Environmental Geoscience Collection Development Policy

1981, revised: August 1985; December 1990; August 2000

## I. Academic Programs Served

### A. Departments

The Department of Geology and Environmental Geosciences is the primary user of the collection. Physics, Chemistry, biological science, and geography, are other discipline areas served by the collection. The Department of Geology and Environmental Geosciences also offers courses which fulfill the general education requirement in the sciences, selected honors courses, and courses that are part of the environmental studies interdisciplinary program.

### B. Degrees Offered in the subject area:

1. Degrees offered at the undergraduate level include: the Bachelor of Science (B.S.) degree in geology.
2. A B.S. degree with a geology minor.
3. The B.S. program prepares students for graduate work in environmental geosciences, hydrogeology, geology, oceanography, geochemistry or geophysics.
4. The Master of Science degree is offered and prepares students for advanced studies, careers in geology, or teaching earth sciences in secondary schools and community colleges.
5. The Doctor of Philosophy degree offered by the department emphasizes petrology, stratigraphy and sedimentology, geomorphology, geophysics, geochemistry and isotope geology, hydrology, glacial geology, paleontology, economic geology, tectonic physics, and environmental geoscience.
6. The department offers a Teachers Certification program for grades 6-12.

### C. New Programs:

## II. Clientele Served

The Department of Geology faculty and graduate and undergraduate students are the primary users. Undergraduate majors and non-majors in the Honors Program are expected to do library research. Undergraduate students taking geology or environmental geoscience courses to fulfill the general requirement in science and those taking geology courses that are required by the Department of Physics (particularly in energy) constitute additional clientele. Graduate and undergraduate students and faculty from the Departments of Physics, Biological Sciences, Geography, and Chemistry are also users of this collection. General public interest centers on those areas dealing with rock and fossil identification and, to a lesser degree, economic geology and planetary space science.

Interdisciplinary interest stems from those departments (Biological Sciences and Chemistry, for example) that participate in the environmental studies interdisciplinary program, chemists interested

in geochemistry, and physicists whose research involves tectonic physics. (There is a joint appointment in the Departments of Physics and Geology).

### III. General Collection Policy Considerations

#### A. Languages.

English is the primary language of the collection. Materials in other languages will be acquired on a selective basis. Translations of foreign language materials into English will be preferred when available.

#### B. Chronological guidelines.

All geologic periods are of interest. Emphasis of the collection is on current scholarship and teaching. Works about the history of geology will be obtained on a highly selective basis.

#### C. Geographical limitations or priorities.

Of particular interest are materials dealing with the Arctic and Antarctic, the major oceans, Labrador, the Caribbean, the Antilles, and Central and South America. In the United States, Utah, the Beartooth Mountains, and Yellowstone region are of special interest, as is the Midwest generally. State geological survey publications are of particular importance as they are a primary source of geological information, have limited distribution, and frequently have a limited press run. They will be collected with emphasis on publications from Wisconsin, Minnesota, Kentucky, Tennessee, Arkansas, Montana, Utah, and California.

#### D. Formats of materials collected.

Materials collected will consist primarily of books and serials publications: monographs, journals, reference works, monographic series, treatises, publications of conferences and symposia, state geological survey publications, scientific and professional society publications and technical reports. Maps are also important. Dissertations, and popular works will be purchased on a highly selective basis. Acquisition of microforms of materials not available in print and of reprints will be made selectively. Electronic databases, full-text journals and books should be incorporated into the collection when resources permit. For federal documents, see the collection development policy of Government Publications.

#### E. Publication dates of material collected.

Materials published in the last ten years will be emphasized. Retrospective materials will be acquired on a selective basis, with no preference being given to original printings or electronic over reprints and microforms.

#### F. Special Considerations.

None.

### IV. Geology Collecting Levels

- Subject: Geology, General  
LC Class(es): QE 1 - 350  
CL: 3c  
AC: 3c

GL: 3c  
PC: 2

- Subject: Mineralogy  
LC Class(es): QE 351 - 399.2  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Petrology  
LC Class(es): QE 420 - 499  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Dynamic and Structural Geology, General Geodynamics, Volcanoes and Earthquakes, Seismology, Coral and Reefs  
LC Class(es): QE 500 -511  
QE 517 - 545  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Geochemistry  
LC Class(es): QE 515 - 516.5  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Sedimentology  
LC Class(es): QE 571 - 599  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Structural Geology  
LC Class(es): QE 601 - 625  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Stratigraphic Geology  
LC Class(es): QE 601 - 6995K  
CL: 4

AC: 4  
GL: 4  
PC: 2

- Subject: Invertebrate Paleontology  
LC Class(es): QE 770 - 832  
CL: 3c  
AC: 3c  
GL: 3c  
PC: 2
- Subject: Geophysics (includes Geomorphology)  
LC Class(es): QC 801 - 809  
CL: 3c  
AC: 3c  
GL: 4  
PC: 2
- Subject: Hydrology  
LC Class(es): GB 651 - 2998  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Marine Sediments  
LC Class(es): GC 380 - 399  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Engineering Geology: Rock Mechanics, Soil Mechanics, Sanitary Engineering:  
Waste Management  
LC Class(es): TA 705 - 710.5, TD 420 - 812  
CL: 4  
AC: 4  
GL: 4  
PC: 2
- Subject: Petroleum Geology  
LC Class(es): TN 830 - 880  
CL: 3c  
AC: 3c  
GL: 4  
PC: 2
- Subject: Economic Geology, Mineral Resources, Prospecting  
LC Class(es): TN 260 - 271, TN 21 - 26  
CL: 4

AC: 4  
GL: 4  
PC: 2

## B. Special Observations

Notations:

- CL = Current Collection
- AC = Acquisition Commitment
- GL = Collection Goal
- PC = Preservation Commitment

## V. Other Resources

At NIU: Map Library, Government Publications, Faraday Library.

Off campus: Center for Research Libraries, University of Wisconsin, University of Illinois.

## VI. Special Remarks

Areas of Research: climate change, economic geology, environmental and groundwater geophysics, geodynamics, geomorphology, geophysics, glacial geology, hydrogeology, petrology, environmental changes, plate tectonics, quaternary stratigraphy, rock deformation, sediment geochemistry, sedimentology, structural geology, and volcanology.