

PHYSICS, ASTRONOMY & GEOSCIENCES COLLECTION DEVELOPMENT POLICY STATEMENT

I. PURPOSE AND PROGRAM DESCRIPTION

A. Library Collection Development Objective

The purpose of this collection is to support the instructional and research needs of the undergraduate programs in Astronomy, Engineering Technology, Geosciences, and Physics.

B. Description of User Groups Supported

The user groups supported include undergraduates and faculty. Note the following program changes over the last 5 years.

Astronomy	The number of astronomy majors (and minors) is increasing. Most astronomy majors also major in physics.
Physics	The number of physics majors is increasing.
Geosciences	The number of geoscience majors has decreased.
Engineering	A new degree program in Engineering technology was approved in Fall 2019.

C. New and Expanding Areas of Interest

Astronomy:	Observational techniques, asteroids, history of astronomy
Physics:	computational physics, molecular dynamics, condensed matter physics, machine learning and data science in physics, computational physics, solid state physics, plasma engineering, optical spectroscopy, nanotechnology, data-science in physics
Geosciences:	No new areas of interest.
Engineering:	Computational mechanics and finite element analysis, dental biomaterials, bioengineering materials, CAD/CAM, experimental mechanics, pulp and paper physics and engineering, renewable energy.

D. Areas of Established Specialization

Astronomy:	observational astronomy, planetary science and geology, galactic structure, interstellar medium, history of astronomy.
Physics:	plasma physics, optics, atomic and molecular physics
Geosciences:	geology, regional and cultural geography, urban planning.
Engineering:	computational and experimental mechanics.

II. TREATMENT OF SUBJECT DEPTH

A. Treatment of Depth

Physics, Astronomy & Engineering

SUBJECT SUBDIVISIONS	COLLECTING LEVEL
Astronomical spectroscopy	3
Astronomy—History	4
—Observations	3
Astrophysics	3
Cosmology	2
Deformations (Mechanics)	3
Dynamics	3
Electric circuit analysis	3
Electrical engineering	3
Electromagnetism	2
Exobiology	2
Galaxies	3
Interstellar matter	3
Mathematical physics	2
Mechanical engineering	3
Mechanics	3
Nonlinear optics	2
Optics	3
Physics-- History	2
Physical measurement	1
Planets—Geology	4
Planetariums	3
Plasma (ionized gases)	4
Quantum theory	3
Relativity (Physics)	2
Signal processing	3
Statics	3
Stellar Spectroscopy	3
Structural engineering	3
Thermodynamics	3

Geosciences

SUBJECT SUBDIVISIONS	COLLECTING LEVEL
Cartography	3
Clay	3
Climate	3
Climate change	3
Economic geography	3
Environmental geography	3
Geochemistry	3
Geographic information systems	3
Geology—Georgia	3
Geology, Economic	3
Geology, Structural	3
Geomorphology	3
Global positioning system	3
Human geography	3
Hydrology	3
Hydrogeology	3
Landforms	3
Meteorology	3
Micropaleontology	2
Mineralogy	3
Natural disasters	2
Oceanography	2
Paleontology	3
Petrology	3
Physical geography—North America	3
Regional planning	3
Rivers	2
Soil science	3

B. Specific Delimitations

Formats collected: Monographs: extensively. Journals, Maps, Media, Proceedings, and Reference tools: selectively. Microformat collections: excluded.

Imprint dates collected: Current: extensively. 20th century: selectively. 19th century and Earlier: excluded.

Chronological focus: Current: extensively. 20th century, and 19th century: selectively. Earlier: excluded.

Languages collected: English: extensively. Other: selectively, by faculty request.

Place of Publication: United States: extensively. Elsewhere: selectively.

Significant Publishers/Associations:

American Association of Physics Teachers
American Astronomical Society
American Geosciences Institute
American Physical Society
American Society of Civil Engineers
American Society of Mechanical Engineers
Geological Society of America
Institute of Electrical and Electronic Engineers
Optical Society
Paleontological Society
Royal astronomical Society
U.S. Geological Survey