Biology

I. General Statement of Collection Development Policy

The collection supports instruction and research through the doctoral level, faculty research, interdisciplinary needs and general undergraduate interests. The collection includes serials and monographs in ecology, evolution, comparative physiology and behavior, cellular and molecular biology, and botany. With the exception of a few core research titles, medicine and forestry are excluded from this collection.

II. Description of the University Program

Wake Forest University offers Bachelor of Arts and Bachelor of Science degrees in biology. Undergraduate students use books and journals as part of their research in wide variety of biology courses. Interdisciplinary minors in environmental science or environmental studies and neuroscience are available to undergraduate students. First year seminars in biology are offered at Wake Forest University. In addition, honors studies are available for qualifying undergraduate students. Undergraduates in the B.S. program are required to take BIO 391 Research in Biology.

Wake Forest University offers Ph.D. and Master of Science degrees in biology. The graduate curriculum is organized into four research focus groups: 1) Cell and Molecular Biology; 2) Ecology, Evolution, and Systematics; 3) Comparative Physiology and Behavior; and 4) Integrative Plant Biology. A Ph.D. in biomedical engineering is offered jointly by Wake Forest University and Virginia Polytechnic Institute.

III. Interdisciplinary Elements of Subject Area

Some materials that are collected to support biology are classified with chemistry (e.g., biochemistry) or physics (e.g., biophysics). The Library facilitates cooperative and coordinated collecting in these and other subject areas.

IV. Formats and Types of Materials

Biology resources are concentrated in serial and periodical titles, electronic databases, research level monographs, books on various biological topics for undergraduates, and advanced level textbooks. When possible, the format of choice for materials supporting the biological sciences is electronic.

The main indexes and abstracts for biology are maintained electronically. The library subscribes to databases such as Biological Abstracts, BioOne Indexing and Abstracting, GEOBASE, MEDLINE (PubMed), and Web of Science.

Conference proceedings and bibliographies are acquired on a selective basis.

The library receives documents relevant to the needs of the Biology program through the Federal Library Depository Program. Of special interest to biology are documents from the National Institutes of Health (NIH), National Institute of Environmental Health Sciences (NIEHS), Environmental Protection Agency (EPA) and the Centers for Disease Control (CDC).

Microfilms may be purchased to fill gaps in periodical holdings or in cases where the information is not available in print format.

Videos and DVDs that support the curriculum are purchased and are housed in the Z. Smith Reynolds Library. Non-print format collecting is subject to change according to the Library's available presentation technology.

V. Languages

English is the language of choice. Materials are purchased in other languages as necessary.

VI. Geographic Areas (Subject Approach)

Not applicable.

VII. Time Periods (Subject Approach)

Emphasis is on materials published in the last twenty years.

VIII. Date of Publication

Emphasis is on the acquisition of current information and electronic back files, with appropriate selection of retrospective materials as needed.

IX. Deselecting Library Materials

The continuous review of library materials is important as a means of maintaining an active library collection. The Z. Smith Reynolds Library has a weeding policy. Materials will be withdrawn from the collection in accordance with this policy. This process will involve the library liaison, the faculty representative(s), and the Library Collection Management group. If the content of the item is interdisciplinary, additional liaisons will be consulted.

X. Subject Area by LC Class and Level of Collecting Intensity - Biology

LC Class	Subject	Desired Level
GC1-1581	Oceanography	3
QE701-760	**Geology-Paleontology**	
QE719.8-905	Paleobiology	3
QE901-996.5	Paleobotany	3
QH1-278.5	**Natural History (General)**	
QH75-77	Nature conservation	4

QH83	Biology—Classification (Biosystematics)	3
QH84-199.62	Geographical distribution, Biogeography	4
QH91	Marine biology	4
QH91.8.B6	Biological Diversity, Biodiversity	4
QH201-278.5	Microscopy	4
QH301-705	**Biology (General)**	
QH323.5	Biometry, Biomathematics	3
QH332	Bioethics	4
QH359-425	Evolution (Biology)	4
QH426-470	Genetics	4
QH442-442.6	Molecular genetics, Genetic engineering	3
QH447-447.8	Genomes	3
QH455	Population genetics	3
QH505	Biophysics	4
QH506	Molecular biology	3
QH513	Biomechanics	3
QH540-549.5	Ecology	4
QH541.5	Marine ecology, Ocean ecology	3
QH573-671	Cytology	4
QK1-989	**Botany**	
QK91-97	Botany--Classification	4
QK101-474.5	Geographical distribution, Phytogeography	4
QK474.8-495.Z	Spermatophyta, Phanerogams	3
QK494-494.5	Gymnosperms	3
QK495.A1-Z	Angiosperms	4
QK504-638	Cryptogams	3
QK520-532	Pteridophyta (Ferns, etc.)	3
QK532.4-555	Bryophyta, Bryology	3
QK564-580.5	Algae, Algology	4
QK580.7-597.7	Lichens, Lichenology	3
QK600-638	Fungi	3
QK640-707	Plant anatomy	4
QK710-899	Plant physiology	4
QK900-989	Plant ecology	4
QL1-991	**Zoology**	
QL101-345.32	Geographical distribution	4
QL360-599.82	Invertebrates	4
QL364	Invertebrates-Physiology	3
QL461-599.82	Invertebrates-Arthropoda-Insects	4
QL605-739.8	Chordates, Vertebrates	4
QL614-639.8	Fishes	4
QL640-669.3	Reptiles and amphibians	4
QL671-699	Birds	4
QL700-739.8	Mammals	4
QL750-795	Animal behavior	4
QL757	Animal behavior-Parasitology	4

QL799-799.5	Morphology	4
QL801-950.9	Anatomy	4
QL951-991	Embryology	4
QM1-695	**Human Anatomy**	
QM531-549	Regional anatomy	3
QM550-577.8	Human and comparative histology	4
QM601-695	Human embryology	4
QP1-981	**Physiology**	
QP34-38	Human physiology	3
QP351-495	Neurophysiology and neuropsychology	4
QP501-801	Animal biochemistry	4
QP901-981	Experimental pharmacology	3
QR1-502	**Microbiology**	
QR74.8-99.5	Bacteria	4
QR99.6-.8	Cyanobacteria	3
QR100-130	Microbial ecology	3
QR171.A1-Z	Microorganisms in the animal body	4
QR180-189.5	Immunology	4
QR201	Pathogenic microorganisms	3
QR355-502	Virology	4
R1-920	**Medicine (General)**	**2**
S1-972	**Agriculture (General)**	**2**
SB1-1110	**Plant Culture**	**2**
SD1-668	**Forestry**	**2**
SF1-1100	**Animal Culture**	**2**
SH1-691	**Aquaculture, Fisheries**	**2**

Originally compiled by Teresa Faust, Liaison/Bibliographer for Biology and Doctor Robert Browne, Biology Department, January 1994.

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