

## CHEMISTRY

### I. General Statement of Collection Development Policy

The Collection supports the study and research needs of faculty, graduate students, and undergraduate students in the Department of Chemistry. The collection includes serials and monographs in analytical chemistry, inorganic chemistry, organic chemistry, physical chemistry, and theoretical chemistry. With the exception of a few basic research titles, chemical engineering, and industrial chemistry will not be collected.

The Department of Chemistry at Wake Forest University offers the following degree programs: a Bachelor of Arts degree in chemistry, a Bachelor of Science degree in chemistry, a Master of Science degree in chemistry and a Doctor of Philosophy degree, with concentrations in analytical chemistry, inorganic chemistry, organic chemistry, physical chemistry, and theoretical chemistry. Wake Forest University's Department of Chemistry is accredited by the American Chemical Society.

### III. Interdisciplinary Elements of Subject Area

Materials purchased with the library budget for Chemistry may also support various science departments as well as interdisciplinary programs or minors such as Environmental Science and Environmental Studies. Some materials collected to support Chemistry may overlap with materials supporting Physics (e.g., chemical physics, atomic and molecular physics, atmospheric chemistry, computational chemistry, nonlinear dynamics, and foundations of physics), Biology (e.g., biochemistry), and the Environmental Program (e.g., environmental chemistry).

### IV. Formats and Types of Materials

Print and electronic materials such as books and periodicals will be the most common acquisitions, but microforms and audiovisuals are considered and added as needed. Preference may be given to electronic format, depending upon such factors as cost, availability of secure archives, and the needs of the program. Duplicative format collecting is avoided.

In consonance with the academic endeavors of the University community, the following types of materials are collected:

Monographs – The library collects research and major trade monographs.

Reference – The Reference Collection supports the curriculum emphases of the various academic programs and the information needs of the Wake Forest community. Major reference materials such as bibliographies, dictionaries, encyclopedias, indices and abstracts are collected.

Serials – A serials collection constitutes an integral part of the library's research resources in the sciences. The serials collection represents the historical and current requirements of the Chemistry Department and will continue to be developed as new courses are added. In addition to the major scholarly and professional journals, funds are also available for a limited number of interdisciplinary journals.

Abstracts and Indexes – The library subscribes to a broad range of databases covering disciplines in sciences.

Proceedings – Proceedings or reports of conferences, symposia and international congresses are collected selectively.

Theses and dissertations – Dissertations and theses which have not been commercially published are rarely acquired, and then only as specific faculty or student interest warrants.

Textbooks and Anthologies – In general the library does not acquire textbooks adopted as required texts for any given courses nor textbook-style anthologies.

Microforms – Microforms are purchased to fill in gaps in periodical holdings or in cases where the information is not available in electronic or print format.

Non-print materials – Video and audio materials that support the curriculum are purchased and are in the Z. Smith Reynolds Library's collection. Non-print format collecting is subject to change according to available presentation technology. Streaming video databases augment the collections of these resources.

## **V. Languages**

The collection consists primarily of works in English; materials are purchased in German, French, or other languages if necessary.

## **VI. Geographic Areas (Subject Approach)**

Not applicable.

## **VII. Time Periods (Subject Approach)**

Emphasis is on the acquisition of current materials published within the last ten years.

## **VIII. Dates of Publication**

The collecting effort is directed primarily at current and recent scholarship. However, retrospective titles may be acquired in response to changes in the curriculum and other academic initiatives (new courses, minor and interdisciplinary programs), faculty research interests, and significant lacunae in the collection. Very selective retrospective purchasing may involve reprints, microform or electronic archives.

## IX. Subject Area and Level of Collecting Intensity

Collecting intensity designations should reflect the Department's present and anticipated curriculum, and should be at levels that enable the Department to implement its academic program.

LC Class	Subject	Desired Level
<i>QD</i>		
1-65	General (including alchemy)	3
8-9	Communication of chemical information	2
11-18	History	3
21-22	Biographies of chemists	2
23.3-26.5	Alchemy	2
40-49	Study and teaching, research	3
51-63	Laboratories	3
65	Handbooks, tables, formulas, etc.	4
71-142	Analytical chemistry	4
81-117	Quantitative analysis	4
130-139	Technical analysis	4
146-197	Inorganic chemistry	4
161-169	Nonmetals	4
171-172	Metals	4
181	Special elements, by chemical symbol, A-Z	2
241-441	Organic chemistry	4
258-281	Operations in organic chemistry	1
300-315	Aliphatic compounds	4
320-327	Carbohydrates	3
330-341	Aromatic compounds	4
375-377	Antibiotics	3
380-388	Polymers, macromolecules	3
390-395	Condensed benzene rings	3
399-406	Heterocyclic chemistry and compounds	4
410-412.5	Organometallic chemistry and compounds	4
415-436	Biochemistry	4
416	Terpenes, camphors, etc. Essential oils	2
419	Gums and resins	2
421	Alkaloids	2
426	Steroids	2
431	Proteins, peptides, amino acids, etc.	4

## X. Deselecting Library Materials

The continuous review of library materials is important as a means of maintaining an active library collection. Materials will be withdrawn from the collection in accordance with the Deselection policy.

*Sarah Jeong, Library Liaison, December 2014.*