Western Libraries
Collections Management Policy
Chemistry

Date created: March 17, 2004 (Peter Galsworthy)
Revised: May 31, 2012 (Shiyi Xie)

Purpose of the Collection:

The chemistry collection of Western Libraries is intended to support the research activities of faculty, students and staff, and the instructional requirements of undergraduate and graduate programs. The collection also provides support for teaching and research in a wide variety of related fields such as chemical and biochemical engineering, biochemistry, pharmacology, geochemistry, and chemical physics.

The Allyn & Betty Taylor Library is the primary location for print holdings supporting the research and instructional needs of the Chemistry department. A significant number of holdings for chemistry are digital, making them available anywhere, anytime, due to Western Libraries’ strategic priority to acquire and provide access to information in digital formats.

Program Information:

Undergraduate Programs

All three Specialization programs (BSc Honours Specialization Biochemistry and Chemistry; BSc Honours Specialization Chemistry; BSc Specialization Chemistry) are accredited by the Canadian Society for Chemistry. Several modules are available:

- Honors BSc with Specialization in Biochemistry and Chemistry
- Honors BSc with Major in Chemistry
- BSc with Specialization in Chemistry
- BSc with Major in Chemistry, four year
- BSc with Major in Chemistry, three year
- BSc with Minor in Chemistry, three year

Graduate Programs

- MSc in Chemistry
- PhD in Chemistry

Subject Areas Covered:
1. Library of Congress Subject Areas for Chemistry

General chemistry
   Nomenclature, terminology, notation
   Communication of chemical information
   Cheminformatics
   Laboratories
      Instruments and apparatus
      Techniques and operations
      Safety measures
      Waste disposal

Analytical chemistry Automation
   Chemometrics
   Electronic data processing
   Quality control
   Sample preparation. Sample introduction
   Reagents, indicators, test papers
   Methods of analysis
   Spectrum analysis
   Electrochemical analysis
   Chromatography
   Trace elements
   Water analysis

Inorganic chemistry
   Nonmetals
   Metals
   Special elements
   Main group elements
   Salts
   Inorganic polymers and polymerization
   Cyclic compounds

Organic chemistry
   Operations in organic chemistry
   Organic synthesis
   Organic analysis
   Electrochemistry of organic compounds
   Organic photochemistry
   Catalysis
   Polymerization. Telomerization
   Aliphatic compounds
   Carbohydrates
   Aromatic compounds
   Antibiotics
Polymers. Macromolecules
Conducting polymers. Conjugated polymers
Vinyl polymers
Condensed benzene rings
Heterocyclic and macrocyclic chemistry and compound
Organometallic chemistry
Biochemistry
Colored compounds

Physical and theoretical chemistry
Atomic and molecular theory and structure
Quantum chemistry
Complex compounds
Physical inorganic chemistry
Physical organic chemistry
Physical biochemistry
Acids and bases
Solids. Solid state chemistry (Inorganic and organic)
Models of atoms, molecules, or chemical compounds
Conditions and laws chemical reactions
Chemical kinetics and mechanisms
Thermodynamics
Catalysis

Surface chemistry
Thermochemistry
Heat of formation, combustion, flame, explosion
Research at low temperatures

Theory of solution
Colloids, sols, gels
Electrochemistry. Electrolysis
Plasma chemistry
Magnetoochemistry
Radiochemistry
Radiation chemistry
Photochemistry
Sonochemistry
Mechanical chemistry
Supramolecular chemistry

Crystallography
Crystal structure and growth
Physical properties of crystals

2. The following subject areas are either interdisciplinary or not well represented by the list above and are also covered:
Bioinorganic Chemistry
Biomaterials
Bioorganic chemistry
Biophysical chemistry
Computational chemistry  Corrosion
Environmental chemistry
Functional materials
Industrial chemistry
Medicinal chemistry
Nanomaterials
Natural products

Format:

Acquisitions will include monographs, book series, and journals. Resources, particularly journals and books, in digital format are preferentially selected over their print counterparts, when available. Alternate formats, such as CD-ROM, video, DVD, and microform, are considered on an individual request basis. Requests for specialized resources to support research will be considered as budget permits.

Language:

English is the primary language of collection. Materials in other languages may be acquired to support the curriculum. English translations of major works in other languages are also acquired.

Source of Publication:

Sources of publication are primarily Canada, the United States, the United Kingdom, and Western Europe. Material published in other regions may be considered on request and will be evaluated for quality and relevance.

Date of publication:

Materials with a recent imprint date are preferred. Older material will be considered upon request, if not adequately represented in the collection.

Exclusions:

With the exception of individual requests and some selective acquisitions, the following types of material are not acquired:
• Popular literature
• Conference proceedings
• Theses or dissertations from other institutions (unavailable in ProQuest Dissertations & Theses Database)  Course textbooks

**Related collections and cooperation:**

The Western Libraries collection for chemistry is supplemented by collections in related fields, such as chemical and biochemical engineering, biochemistry, pharmacology, earth sciences, chemical physics, environmental sciences, biological sciences, and mathematics.

**Gifts:**

The library gratefully accepts gifts of materials in good condition. As considerable expense is incurred by Western Libraries in the receipt and processing, the library only accepts gifts of materials which support current teaching and research needs, or which are not adequately represented in the collection. Due to space constraints titles already in the collection will not be considered. Only materials published within the last five years will be considered for acceptance in order to keep the collection current with developments in the chemistry subject area.

**Managing the Collection:**

In order to ensure that collections remain optimally useful for our patrons, it is necessary to analyze collection usage and available space regularly. Items will need to be selectively removed from the onsite collection from time to time.

Duplicate items that are no longer required to support the curriculum, and damaged items that can no longer be replaced, may be removed from the collection at the discretion of the Subject Librarian.

Items that are unique to Western may be transferred to a storage facility. Materials housed in these storage facilities are available by request through the Library Catalogue.

Criteria for transfer selection include, but are not limited to, the following:

1) Outdated or previous editions of titles
2) Medium- to low-use items
3) Material that is available in alternate formats, i.e., online
4) Materials that would benefit from storage in a more controlled environment.

Consult the Subject Librarian for further details about these criteria.
Resources to aid in acquisition of material:

1) Direct ordering from the Coutts monograph vendor
2) Catalogues from major publishers, societies, and associations
3) Direct requests from library patrons