

**Western Libraries  
Collections Management Policy  
Chemistry**

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**Subject Librarian:** Shiyi Xie, Allyn & Betty Taylor Library  
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**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
  - Magnetochemistry
  - 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