Western Libraries
Collections Management Policy
Department of Civil and Environmental Engineering

Date created: October 31, 2013 (Lise Doucette)

Subject librarian: to be determined

Purpose of the Collection:

The Civil and Environmental Engineering 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 related fields such as other engineering departments and the sciences.

The Allyn & Betty Taylor Library is the primary location for material supporting the research and instructional needs of the Civil and Environmental Engineering department. A strategic priority of Western Libraries is to acquire and provide access to information in digital formats. A number of holdings for Civil and Environmental Engineering are digital available anywhere, anytime.

Program Information:

The department of Civil and Environmental Engineering offers the following programs:

1. Undergraduate degree: BESc in Civil Engineering, with:
   - Civil and Structural Engineering Option
   - Environmental Engineering Option
   - Environmental Engineering with International Development
   - Structural Engineering with International Development Option

2. Combined undergraduate degrees with professional faculties (Law, Business, or Medicine) are offered, as are dual degrees with other Western programs.

3. Graduate degrees:
   - MESc in Civil and Environmental Engineering
   - MEng in Civil and Environmental Engineering
   - PhD in Civil and Environmental Engineering
Subject Areas Covered:

Areas of focus for undergraduate instruction include:

- Computational Tools
- Drinking Water Quality and Treatment
- Engineering Fluid Mechanics
- Environmental Engineering
- Finite Element Methods in Solid Mechanics
- Hydrogeologic Engineering
- International Development
- Materials for Civil Engineering
- Mechanics of Materials
- Municipal Engineering Design
- Natural Loads and their Effects
- Numerical Modeling
- Project Management
- Reinforced Concrete Design
- Soil Mechanics
- Steel Design
- Structural Theory and Design
- Surveying
- Water Resources Management

Major areas of focus for faculty and graduate research are:

- Environmental and Water Resources
- Geotechnical and Geoenvironmental
- Structural and Infrastructural
- Wind Engineering and Environmental Fluid Mechanics

More detailed areas of focus for faculty research, graduate research and coursework, and upper-level technical electives and fourth-year project work for undergraduate students include:

- Air Pollution
- Application of Random Vibration
- Aquatic Chemistry
- Assessment & Remediation of Contaminated Sites
- Biological Wastewater Treatment
- Bluff Body Aerodynamics
- Boundary Layer Meteorology
- Bridge Assessment and Rehabilitation
- Building Sustainability
- Climate Variability and Change
- Composite Materials
- Concrete Technology
- Design Assessment of Energy Pipelines
- Drinking Water Quality and Treatment
• Durability, Monitoring and Rehabilitation of Concrete Structures
• Dynamics of Soils and Foundations
• Dynamics of Structures
• Engineering Planning and Project Management
• Engineering Statistics and Reliability
• Environmental Applications of Nanotechnology
• Environmental Design for Waste Disposal
• Environmental Hydraulics Design
• Finite Element Analysis for Solids
• Geotechnical Earthquake Engineering
• Geotechnical Engineering Design
• Ground Anchoring Systems
• Ground Improvement Techniques
• Hydropower Optimization
• Industrial and Mining Waste Recycling
• Instrumental Methods Analysis for Engineers
• Instrumentation and Site Investigation
• International Development
• Landslide and Slope Stability
• Landslide Prevention and Mitigation
• Natural Disasters: Mitigation, Modeling and Assessment
• Offshore Geotechnical Design
• Petroleum Geomechanics
• Prestressed Concrete
• Response of Structures to Loads
• Risk Analysis, Reliability, and Decision Making
• Rock Mechanics
• Safety Assessment of Dams and Slopes
• Seismic Analysis and Design of Buildings
• Soil and Groundwater Contamination and Remediation
• Steel Design
• Stormwater Management
• Structural Dynamics
• Subsurface Contamination
• Tunneling and Underground Structures
• Waste Geotechnics
• Water Resources Systems Modeling and Management
• Wind Effects on Building Components
• Wind Energy
• Wind Engineering

Format:

Acquisitions will include monographs, book series, and journals. Resources, particularly journals, in digital format are preferentially selected over their print counterparts. Alternate formats, such as CD-ROM, video, DVD, and microform, are considered on an individual request basis.

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.

**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 (that are not included as part of the ProQuest Dissertations & Theses Database)
- Course textbooks

**Related collections and cooperation:**

The Western Libraries collection for Civil and Environmental Engineering is supplemented by collections in related fields, such as Biology, Chemical and Biochemical Engineering, Environmental Sciences, Mechanical and Materials Engineering.

Standards from various governmental bodies and organizations are collected to support undergraduate and graduate course instruction, thesis research at the MESc and PhD levels, and faculty research. The emphasis is on current and locally relevant standards, but some retrospective standards are available.

The collection of the Map and Data Centre, which includes maps, data, and GIS files, also supports the Department of Civil and Environmental Engineering.

**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.

**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. Material housed in these storage facilities is available on 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:

- Profile developed in collaboration with Coutts Information Services to capture publications that match relevant Library of Congress Subject Headings
- Websites of society publishers (ASCE, ICE)
- Direct requests from library patrons