

PROGRAM REVIEW

Construction Operations Certificate

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BACKGROUND

University of Louisville (UofL) Libraries are comprised of:

- 1) Ekstrom Library serving humanities, social sciences, life sciences, business, engineering, physical sciences, and technology,
- 2) Kornhauser Health Sciences Library,
- 3) Anderson Music Library,
- 4) Bridwell Art Library,
- 5) The Law Library, and
- 6) University Archives and Special Collections.

UofL's library system supports the teaching and research needs of more than 22,000 students and more than 7,000 faculty and staff. UofL belongs to the Association of Research Libraries (ARL), an organization of 126 North American library systems affiliated with large, comprehensive research institutions; the State-Assisted Academic Library Council of Kentucky (SAALCK); and Kentuckiana Metroversity, a consortium of Louisville area libraries.

This report provides a summary of library resources that support teaching and research in Construction Operations. It concludes that the library's current resources are adequate to support the new program and identifies a few resources that could be purchased to increase and strengthen the library's support for this program and other existing programs.

SERVICES

Research Assistance and Instruction

Each library within the University of Louisville Libraries offers instruction programs designed to meet the needs of its researchers. Ekstrom Library's information literacy program provides both face-to-face and online research instruction tailored to specific courses and assignments. The library's Research DIY website offers additional online support for students, with brief video tutorials, infographics, and other instructional materials.

Ekstrom Library also provides research assistance through in-person consultations, e-mail, telephone, and online chat. Ekstrom also has an assigned library liaison and subject specialist for the J.B. Speed School of Engineering.

Interlibrary Loan and Document Delivery

Faculty and students can access books and articles not held by UofL Libraries through [Interlibrary Loan](#). Document delivery services allow patrons to request that library-owned articles or book chapters less than 50 pages in length, and within copyright fair use guidelines, be scanned and delivered to them electronically. Ekstrom Library has a [Distance Learning Services Specialist](#) who provides online learners with access to print and electronic resources.

STAFFING

According to the most recent data available from ARL, UofL Libraries' staff to student ratio is slightly above average compared to our established benchmark institutions.

<u>FY 2019-2020</u>	<u>Library Staff</u>	<u>Full-Time Students</u>	<u>Ratio Staff : FT Students</u>
University of Louisville	102	18,650	1:183
SUNY @ Buffalo	121	26,616	1:220
Stony Brook University	74	22,188	1:300
Temple University	135	33,783	1:250
University of Alabama @ Birmingham	114	38,103	1:334
University of California – Irvine	171	35,809	1:209
University of California – San Diego	223	37,150	1:167
University of New Mexico	129	27,074	1:210
University of Cincinnati – Main Campus	130	34,575	1:266
University of Illinois @ Chicago	133	28,606	1:215
University of Iowa	198	26,045	1:132
University of North Carolina @ Chapel Hill	311	25,423	1:82
University of Pittsburgh – Main Campus	246	30,746	1:125
University of South Carolina	176	33,094	1:188
University of Utah	198	25,142	1:127
Virginia Commonwealth University	151	25,550	1:169
Wayne State University	113	18,635	1:165

COLLECTIONS

Books

Here is a breakdown of the library's current holdings of both print and eBooks, categorized by relevant Library of Congress subject heading:

LC Subject	# of Print Books	# of eBooks	Print Books published in last 20 years	eBooks published in last 10 years
Surveying	57	6	6	1
Engineering Management	56	62	15	16
Building Construction	1041	230	107	67
Engineering Materials	1250	1605	254	741

Periodicals

UofL currently has online full-text access to the following journals that focus on topics related to the proposed program. Journals are listed by Scimago Journal Rankings from highest to lowest.

Journal	Online Full-Text Holdings
Automation in Construction (SJR:2.401)	1995-Present UofL Faculty Published
Construction and Building Materials (SJR:1.777)	1987-Present UofL Faculty Published
Journal of Management in Engineering (SJR:1.619)	1985-Present
Energy and Built Environment (SJR:1.571)	2020-Present
Building and Environment (SJR:1.498)	1976-Present

Journal of Composites for Construction (SJR:1.281)	2005-Present
Journal of Construction Engineering (SJR:1.07)	1997-Present
Case Studies in Construction Materials (SJR:1.009)	2014-Present UofL Faculty Published
Construction Innovation (SJR:0.829)	2001-Present
Engineering, Construction, and Architectural Management (SJR:0.717)	2003-Present
Journal of Civil Engineering and Management (SJR:0.597)	2004-Present

Online Databases

The following databases offer indexes, abstracts, and full-text access to the periodicals listed above plus thousands of other publications and data related to the proposed program.

- Compendex
- ScienceDirect
- Wiley Online Library
- Web of Science
- ASCE Civil Engineering Database
- Energy Citation Database
- EBSCO Academic Search Complete
- Emerald Library

Other Resources

There are online research guides in Civil and Environmental Engineering, Standards, and Patents which can be used to support the proposed program. Graduate students may also benefit from the [Productive Researcher Portal](#), which provides advanced research strategies and tools. Ekstrom Library and Kornhauser Library also provide regular training in [EndNote](#) citation management software.

Analysis of Collections

- **UofL Libraries have approximately 4,300 books that would support the Construction Operations Certificate. Less than a fourth of the relevant books could be considered recent and published within the last ten years. However, many of the prominent and comprehensive books on Construction Operations were published more than five years ago. Within the discipline of Construction Operations, Engineering Materials is an innovative field, and we subscribe to the leading journals that publish the latest research.**

- **No new classes are being developed to support this program and we have adequate resources to support the current curriculum that makes up the proposed Certificate in Construction Operations.**

RECOMMENDATIONS

- **UofL Libraries could support the current and proposed programs by purchasing the American Society of Safety Professionals, A10 Construction and Demolition Operations Standards (each standard is \$100):**
<https://www.assp.org/standards/standards-topics/construction-and-demolition-operations-a10>
- **UofL Libraries can also strengthen its support of current programs by purchasing the following books:**
 - Levy, S. M., & Civitello, A. M. (2014). Construction operations manual of policies and procedures (5th ed.). McGraw-Hill Education LLC. Retrieved from https://www.vitalsource.com/products/construction-operations-manual-of-policies-and-sidney-m-levy-andrew-m-v9780071826952?duration=perpetual&utm_source=bing&utm_medium=cpc&utm_campaign=VST%20Tier%20One%20ShoppingGoogle-US&msclkid=468d217b7f2d1aecdaf94294910a70ee. (\$57.57)
 - Mehta, M., Scarborough, W., & Armpriest, D. (2018). Building construction: principles, materials, and systems (Third). Pearson. Retrieved from <https://www.vitalsource.com/products/building-construction-principles-materials-amp-madan-l-mehta-ph-d-walter-v9780134443515> (\$74.99)
- **A thorough LibGuide has already been developed for Civil and Environmental Engineering. New LibGuides can be developed to support any courses associated with the Certificate in Construction Operations.**
- **Ekstrom Library has a dedicated Engineering librarian who will be the primary point of contact for students and faculty associated with the proposed program.**

CONCLUSION

- The University of Louisville Libraries have adequate resources to support the proposed program.
- The University of Louisville Libraries have resources that marginally support the proposed program. We recommend providing funding for the purchase of materials and resources outlined in the Recommendations section of this document.
- The University of Louisville Libraries do not have adequate resources to support the proposed program.