Construction Science and Management

Information Access Policy Clemson University Libraries

Kathy Edwards

Construction Science Librarian

Emery A. Gunnin Architecture Library

Revised: November 2012, from 2000 version by S.McCleskey

I. Purpose: To support research and teaching needs of students and faculty in the field of construction science. The Clemson University Department of Construction Science and Management offers programs leading to the following qualifications:

Bachelor of Science in Construction Science and Management Master of Construction Science and Management Graduate-level certificate in Construction Science and Management

The Bachelor of Science degree is accredited by the American Council for Construction Education.

A. Curriculum

- 1. In addition to the University's general education requirements, students are introduced to the current processes and functions utilized by construction industry practitioners. Theoretic concepts are reinforced and practiced in the laboratory, through site visits, and through seminars conducted by industry experts. Topics such as structures, materials and methods, contract documents, estimating, scheduling, safety, and project management form the core curriculum of the degree.
- 2. Clemson University's Master of Construction Science and Management program provides students with high levels of skill and understanding in the technical areas of construction project administration and control. The degree focuses on advanced study in the field of business techniques, in new and emerging technologies for construction project delivery systems, and in the administration of construction firms. Qualified students can earn their degree by attending classes full time or part time on the Clemson campus or via online distance learning.

B. Program Enrollments

	2008	2009	2010	2011	2012
Undergrad Majors	194	192	180	160	145
Graduate Students	23	24	15	18	15

C. Primary & Secondary Users

1. Primary Users (2012):

Undergraduate CSM majors: 145

Graduate students: 15

Faculty: 8

2. Secondary Users

Other Clemson students, faculty, and staff Professional constructors Courtesy patrons involved in building

II. Scope of In-House Collection

Materials are purchased for the construction collection to support academic classes offered by the Department of Construction Science and Management at Clemson University (See Appendix).

The construction collection is housed in the Gunnin Architecture Library. Materials for the circulating collection (other than government documents) and Reference materials will be evaluated and selected by the Construction Science & Management Librarian. The Construction Science & Management Librarian may also recommend resources for the Main Library's reference collection and the Clemson Libraries database/e-resource collection.

A. Format Guidelines

Collection development will focus on acquiring (through purchase, subscription or license) curriculum-relevant content in the available format that best suits the needs of the resource's primary users. Formats may be either print or digital. Digital resources may be online or on physical media such as DVDs.

B. Language Guidelines

The vast majority of materials purchased should be written in the English language.

C. Geographical Guidelines

Collection efforts will emphasize materials related to American and European construction. Relevant and significant materials on global trends and developments in the construction industry will also be collected.

D. Chronological Guidelines

Selections will focus on current, up-to-date information. Certain important materials on the history of technology will be selected.

E. Publication Date Guidelines

The selector will purchase books/resources published within the last two years. Exceptions: books requested by faculty members or books highly recommended in a review source.

F. Types of Materials Included

- 1. Monographs: Monographs on a single subject will be selected for the general collection as budget allows.
- 2. Collections of essays on relevant topics will be selected as budget allows.
- 3. Career guidance materials: Career guides and job-seeking books for construction students will be purchased for the reference collection.

- 4. Databases: Electronic databases that can be used to locate journal articles and other publications for research in construction, including standards, and in construction management (in alphabetical order):
 - a. Applied Science & Technology Full Text
 - b. ASCE Research Library
 - c. ASTM Digital Library
 - d. ASTM Standards
 - e. Avery Index to Architectural Periodicals
 - f. Business Source Complete
 - g. CRCnetBASE Resource Center
 - h. Engineering Index/Compendex
 - i. ICONDA (International Construction Database)
 - j. IEEE Xplore Digital Library
 - k. Knovel Science and Technology Collection
 - 1. ScienceDirect
 - m. SpringerLink
 - n. TRID Online
- 5. Cost data resources: Purchased for the Reference collection. Most recently superseded editions of some titles are rotated to the circulating collection. Non-circulating software versions are also acquired for the media collection.
- 6. Dictionaries: Purchased for the Reference collection. No effort is made to collect dictionaries for the circulating collection.
- 7. Directories: Purchased for the Reference collection. No effort is made to collect directories for the circulating collection.
- 8. Encyclopedias: New editions and new titles will be purchased for the Reference collection.
- 9. Journals: Every effort will be made to preserve the current journal collection and to add new titles as funds allow. Evaluation tools such as faculty surveys and interlibrary loan activity will be used to identify core journals and faculty favorites to ensure they remain in the collection. A special effort will be made to acquire or retain journals for which faculty members serve as editors or members of editorial boards. Electronic format will be preferred over print when both formats are available, as budget allows.
- 10. Theses and Dissertations: The Graduate School requires that all theses and dissertations be submitted in electronic format. These are made available online. The majority of theses and dissertations written at other universities should be obtained through Interlibrary Loan.

G. Types of Materials Excluded

Textbooks: Textbooks that are used in classes taught at Clemson University will not be purchased. Other textbooks may be purchased if they support the construction curriculum.

H. List of Journals

There is no core list of journals for construction science from the American Council for Construction Education or any other body. Some key journals received by Clemson are:

Architects' journal

Architectural lighting

Builder

Building design and construction

Building research and information

Construction manager

Construction review

Construction specifier

Constructor

Dixie contractor

Energy and buildings

ENR

Lighting design and application

Mid-west contractor

Modern steel construction

NFPA journal

Old-house journal

Taunton's fine woodworking

III. Collection Analysis by Subject

A. Library of Congress Call Number Ranges and Subject Headings

Call Number	Subject Heading/Description	
HD9715-9717.5	Construction industry	
TH 1-9745	Building construction	
TH 845-895	Architectural engineering. Structural engineering of buildings	
TH 900-915	Construction equipment in building	
TH 1000-1725	Systems of building construction. Including fireproof construction	
	concrete construction	
TH 2025-3000	Details in building design and construction. Including walls, roofs	
TH 3301-3411	Maintenance and repair	
TH 4021-4977	Buildings: Construction with reference to use. Including public	
	buildings, dwellings	
TH 5011-5701	Construction by phase of the work (Building trades)	
TH 6014-6081	Environmental engineering of buildings. Sanitary engineering of	
	buildings	
TH 6101-6887	Plumbing and pipefitting	
TH 7005-7699	Heating and ventilation. Air conditioning	
TH 7700-7975	Illumination. Lighting	
TH 8001-8581	Decoration and decorative furnishings	
TH 9025-9745	Protection of buildings. Including protection from dampness, fire,	
	burglary	

B. Level of Collecting

Approximately 75% of the books ordered for the construction collection should support the undergraduate curriculum. Titles should be reviewed on an individual basis, and the selector should determine which courses the book will support. Since many courses are offered at the both the 300/400 and 600 levels, both undergraduate and graduate students will benefit from books selected for these subjects.

IV. Access to Information not On-Site/Licensed by Clemson Libraries

A. Interlibrary Loan & PASCAL

The primary access points for books, journals, and other types of publications not owned or accessible by the Libraries will be Interlibrary Loan and the South Carolina academic libraries consortium, PASCAL. These services are free to Clemson University students, faculty, and staff. These services are not available to the general public.

B. Ingenta

This service enables Clemson faculty, students, and staff to access full-text online articles that the Clemson Libraries do not own and that are not available from PASCAL partners or via interlibrary loan. Ingenta has limited coverage and a price cap per article.

C. Full-text Databases

Many of the databases offered through PASCAL and State of South Carolina DISCUS licenses include full-text journal and magazine articles and other information resources.

V. Selection Tools

A. Book Review & Notification Sources

Choice Reviews Online GOBI Notifications

B. Approval Plans

Approval plans for books and notification slips are arranged with Yankee Book Peddler (as authorized by the Acquisitions Branch Head) to ensure acquisition/notification of titles that fit the needs of the library's circulating collection. There is currently no approval plan for construction materials.

C. Publisher's Catalogs & Web Pages

A few publishers that offer titles on construction topics include:

McGraw-Hill

RSMeans

E & FN Spon

Sweet's Group

Wiley

D. Faculty requests and recommendations

Faculty recommendations will be solicited at the start of each semester. Requests will be accepted at any time and expedited, if needed.

E. Weeding Guidelines

The initial phase of weeding of books relating to construction will focus on removing books published prior to 1990 that have not circulated. Because of the need to maintain books for historical research, it is occasionally important to keep copies of older books, even if they have never circulated. They receive some in-house use, and future projects may involve their use.

VI. Collection Assessment & Planning

A. Qualitative Measures

1. Clemson Benchmark Institutions

Auburn

Georgia Tech

Texas A&M

Virginia Tech

North Carolina State

2. User Surveys

Surveys should be conducted to determine how construction students and faculty perceive the collection and to determine what they think is weak/strong about the collection. Surveys could also be used to find out what resources/services users would like added and if there are any they could do without.

B. Quantitative Measures

- 1. Interlibrary loan statistics
- 2. Circulation statistics for materials in the call number range listed in III.A

Appendix: Construction Science & Management Courses offered at Clemson University

UNDERGRADUATE

CSM 100 Introduction to Construction Science & Management

CSM 150 Construction Problem Solving

CSM 201 Structures I

CSM 202 Structures II

CSM 203 Materials and Methods of Construction I

CSM 204 Contract Documents

CSM 205 Materials and Methods of Construction II

CSM 303 Soils and Foundations

CSM 304 Environmental Systems I

CSM 305 Environmental Systems II

CSM 351 Construction Estimating

CSM 352 Construction Scheduling

CSM 353 Construction Estimating II

CSM 411 Safety in Building Construction

CSM 420 Highway Construction and Contracting

CSM 450 Construction Internship

CSM 453 Construction Project Management

CSM 454 Construction Capstone

CSM 455/655 Reducing Adversarial Relations in Construction

CSM 461 Construction Economics Seminar

CSM 490/H490 Directed Studies

CSM 498 Current Topics in Construction

GRADUATE

Core Requirements

CSM 852 Construction Management Research

CSM 860 Financial Planning & Analysis

CSM 861 Construction Control Systems

CSM 862 Personnel Management & Negotiations

CSM 863 Advanced Planning & Scheduling

CSM 864 Business Strategy & Marketing

CSM 865 Project Management

CSM 889 Special Problem

CSM 891 Master's Thesis Research

Major Elective Courses

CSM 655 Reducing Adversarial Relations in Construction

CSM 881 Professional Seminar

CSM 890 Directed Studies