

Building Construction — PhD

The PhD in Building Construction is a research-based degree focused on the generation of new knowledge through innovative exploration of theory, development of creative perspectives, and applications of new technologies. It emphasizes original interdisciplinary scholarship in key and emerging areas such as high performance buildings, n-D modeling and simulation of building construction processes, sustainability, integrated project delivery, and facilities maintenance and management.

The PhD in Building Construction requires 62 semester hours of graduate course work beyond the bachelor's degree. Up to 21 credit hours from a Master's degree or previous graduate course work are transferable on the approval of the School's PhD committee. It also requires a Comprehensive Written and Oral Examination before dissertation research commencement, a Comprehensive Research Proposal Examination defined as the Proposal Defense, and a Final Oral Examination defined as the Dissertation Defense.

For a PhD in Building Construction, the specific semester hours' requirements are as follows:

Number of credit hours transferable from a Master's degree (6000 or higher level courses): Max.21 (Please refer to degree requirements in the program booklet for details)

Number of credit hours for Building Science (BSCI) graduate courses (6000 level or above): Min. 9

- BSCI 8060: Advanced Research Methods in Building Science-1 (3)
- BSCI 8070: Advanced Research Methods in Building Science-2 (3)
- Other BSCI 6000 or higher level courses from the Course List

Number of credit hours for BSCI or other graduate courses (6000 level or above) directly related to the candidate's area of research: Min. 18

Code	Title	Hours
List of BSCI Graduate Courses		
BSCI 6450	Building Great Structures	3
BSCI 6460	Planning and Decision Making in Construction	3
BSCI 6470	Small Unmanned Aircraft Systems in Construction	3
BSCI 6830	Global Construction Management	3
BSCI 6840	Multi-Cultural Issues in Construction Labor	3
BSCI 6960	Special Problems in Construction	3
BSCI 7010	Construction Labor and Productivity	3
BSCI 7020	Integrated Building Processes I	3
BSCI 7030	Construction Information Management	3
BSCI 7040	Integrated Building Processes II	3
BSCI 7050	Executive Issues in Construction	3
BSCI 7100	Graduate Elective in Project Management: Project Management and Scheduling	3
BSCI 7200	Electives in Construction Labor	3
BSCI 7300	Electives in Information Technology and Innovation	3
BSCI 7900	Directed Reading in Const	3

Dissertation Seminar Credit Hours: Min. 4

- BSCI 8950: Dissertation Seminar (1)

Dissertation Credit Hours: Min. 10

- BSCI 8990: Dissertation (1-10)

Total Credit Hours above Bachelor's degree: Min. 62