

# MASTER OF SCIENCE IN BUILDING CONSTRUCTION AND FACILITY MANAGEMENT

The master's degree program in the School of Building Construction focuses on management-based education for industry professionals seeking executive leadership positions in the industry. Our graduate training offers a holistic approach to business processes, integrating coursework, seminars, and hands-on learning to equip today's industry professionals with the resources they need to excel in their professional careers. The graduate program consists of two concentrations:

1. Program and Facility Management
2. Technology

Students can complete either a thesis or non-thesis option for the degree.

Students in the program come from a variety of backgrounds, often with experience in facility management, construction, architecture, engineering, city planning, management, or business. The program is tailored to meet the needs of professionals by offering evening classes, giving students the flexibility of continuing to work while taking courses.

## Thesis Option

Code	Title	Credit Hours
Core Courses		
BC 6650	Advanced Project Management	3
BC 6550	Design and Construction Processes for Integrated Services	3
BC 6250	Value Management for Integrated Facility Design and Construction	3
BC 6300	Safety and Environmental Issues	3
BC 6685	Leadership and Communications in Design and Construction	3
Approved Electives <sup>1</sup>		6
BC 7100	Quantitative Methods for Construction Research	3
Master's Thesis		6
<b>Total Credit Hours</b>		<b>30</b>

<sup>1</sup> Thesis students should not declare a concentration. Approved electives may be taken from Approved Elective list or from the concentration lists.

## Non-Thesis Option

Code	Title	Credit Hours
Core Courses		
BC 6650	Advanced Project Management	3
BC 6550	Design and Construction Processes for Integrated Services	3
BC 6250	Value Management for Integrated Facility Design and Construction	3
BC 6300	Safety and Environmental Issues	3

BC 6685	Leadership and Communications in Design and Construction	3
Concentration Courses <sup>1</sup>		12
Approved Electives <sup>2</sup>		3
<b>Total Credit Hours</b>		<b>30</b>

<sup>1</sup> See concentration lists below.

<sup>2</sup> See Approved Electives list below.

Code	Title	Credit Hours
<b>Program and Facility Management Concentration</b>		
BC 6185	Introduction to Construction Program Management	3
BC 6485	Management of Preconstruction Phase as Owner	3
BC 6200	Maintenance Management of Built Assets	3
BC 6100	Professional Trends in Facility Management	3

Code	Title	Credit Hours
<b>Technology Concentration</b>		
BC 6050	Building Information Modeling for Multi-disciplinary Integration	3
BC 6005	Technology Applications in the Construction Industry	3
BC 8803	Special Topics (Digital Twins for the Built Environment)	3
BC 8803	Special Topics (Construction 4.0)	3

Code	Title	Credit Hours
<b>Approved Electives</b>		
BC 6675	Residential Design and Construction	3
BC 6370	Real Estate Policy, Trends, Ethics	3
BC 6600	Facilities Management Financial Analysis	3
BC 6475	Real Estate Development Law	3
BC 6350	Design and Construction Law	3
BC 6270	Community Design and Development	3
BC 6975	The Evolution of a Deal	3
BC 7100	Quantitative Methods for Construction Research	3
CEE 6140	Advanced Planning and Estimating Methods	3
CEE 8813	Special Topics (Construction Industry Best Practices)	3