

# CONSTRUCTION MANAGEMENT (B.S.)

A professional construction manager is someone who coordinates all that goes into a construction project. The overall goal of a construction manager is to produce a financially sound project that is completed on time and meets the specific needs of the client as well as the codes put forth by governmental agencies. Responsibilities of a construction manager are project planning, cost, time, safety, quality, and contracts.

Working professionals seeking to advance their education, students interested in construction management, or seasoned employees looking to start their own companies often choose construction management to help achieve career goals. People with construction management degrees often work as project managers, superintendents, estimators, schedulers, or green construction/LEED specialists. Many people in the construction industry own and operate their own businesses.

The program offered in construction management specialization includes course work on construction project management, estimating, scheduling, safety, legal and professional aspects, specifications, computer applications and a capstone project. Additional courses from the Business School on accounting, marketing, and management complement the program. Co-op and internship opportunities are available to the students in summers as well as the academic year.

## Admission Requirements

This program is designed to admit students who satisfy the general undergraduate admission (<http://bulletins.wayne.edu/undergraduate/general-information/admission/>) requirements of the University and have an associate degree or equivalent course work in architectural technology, construction technology, and civil technology. A minimum grade point average (g.p.a.) of 2.5 is required for admission into the program. Students with a g.p.a. of 2.0 to 2.5 may be admitted as pre-engineering technology students, and may be transferred into the B.S.C.M. program upon successful completion of pre-calculus (MAT 1800) and physical science courses, with a g.p.a. of 2.5 or above.

A Mathematics Placement Examination is required of entering students who have not already earned advanced credit in pre-calculus.

## Program Requirements

Candidates for the B.S.C.M. degree must earn a minimum of 120 credits, as outlined in one of the following major programs and including the University General Education Requirements (<http://bulletins.wayne.edu/undergraduate/general-information/general-education/>). A minimum of thirty semester credits must be earned from Wayne State, at least twenty-four of which must be in Division of Engineering Technology courses. All coursework must be completed in accordance with the academic procedures of the University (<http://bulletins.wayne.edu/undergraduate/general-information/academic-regulations/>) and the College (<http://bulletins.wayne.edu/undergraduate/college-engineering/academic-regulations/>) and must conform to Division (<http://bulletins.wayne.edu/undergraduate/college-engineering/engineering-technology-division/#academicregulationstext>) academic standards.

In order to graduate, the University requires a minimum 2.0 g.p.a. in total resident credit, and the Division a minimum 2.0 g.p.a. in total coursework in the area of specialization; as well as satisfaction of all University Undergraduate General Education Requirements.

The Bachelor of Science in Construction Management degree requires a minimum of 120 credits as outlined in the following curriculum.

Code	Title	Credits
<b>Basic Sciences and Mathematics</b>		
MAT 1800	Elementary Functions (QE)	4
ET 3430	Applied Differential and Integral Calculus	4
CHM 1020	Survey of General Chemistry (NSI)	4
PHY 2130	Physics for the Life Sciences I (NSI)	4
PHY 2131	Physics for the Life Sciences Laboratory (NSI)	1
<b>Business and Management</b>		
CMT 3050	Construction Accounting and Financial Management	3
CMT 5030	Facilities and Management Principles	3
ECO 2020	Principles of Macroeconomics (SI)	4
or ECO 2010	Principles of Microeconomics	
ET 3870	Engineering Economic Analysis	3
PHI 1120	Professional Ethics (CI)	3
Approved Business Elective		6
<b>Construction Science and Construction Management</b>		
CMT 3000	Construction Estimating and Bidding	3
CMT 3010	Introduction to Construction Management	3
CMT 3020	Residential and Commercial Land Development and Design	3
CMT 3030	Construction Safety Management	3
CMT 3040	Building Codes	3
CMT 3070	Introduction to Green Construction	3
CMT 3080	Advanced Computers in Construction	3
CMT 4050	Construction Methods	3
CMT 5060	Planning and Scheduling	3
CMT 5070	Mechanical and Electrical Systems in Buildings	3
CMT 4200	Senior Project	3
CMT Elective (3000 or higher course work)		3
<b>Lower Division Technical Transfer Credit</b>		
Introduction to 2D and 3D CAD		3
Soils and Foundations		3
Lower Division Tech Electives		21
<b>Communication Requirements</b>		
(BC) Basic Composition course		3
(IC) Intermediate Composition course (ENG 3050 required)		3
(OC) Oral Communication course		3
<b>General Education Requirements</b>		
(DEI) Diversity, Equity and Inclusion		3
(GL) Global Learning		3
(CIV) Civic Literacy		3
<b>Total Credits</b>		<b>120</b>