CONSTRUCTION MANAGEMENT (B.S.C.M.)

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.

Candidates for the B.S.C.T. degree must earn a minimum of 127 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). University policy allows a maximum of sixty-four semester credits transferred from community colleges to Wayne State, but students following University-approved articulation agreements with community colleges are able to exceed the maximum of sixty-four credits; 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/#academicregulations) 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 including satisfactory achievement of the Critical Thinking Requirement either by completion of a (CT) course or by passing the Critical Thinking Competency Examination (administered by Testing, Evaluation, and Student Life Research Services).

Program Requirements: The Bachelor of Science in Construction Management degree requires 127 credits as outlined in the following curriculum.

### Basic Sciences and Mathematics

- CHM 1020 (PS) Survey of General Chemistry 4
- MAT 1800 Elementary Functions 4
- MAT 3430 Applied Differential and Integral Calculus 4
- PHY 2130 (PS) Physics for the Life Sciences I 4
- PHY 2131 Physics for the Life Sciences Laboratory 1

### Life Sciences (LS) elective

3

### Business and Management

- CMT 3050 Construction Accounting and Financial Management 3
- CMT 4030 Facilities Management Principles 3
- ECO 2020 (SS) Principles of Macroeconomics 4
- ET 3870 Engineering Economic Analysis 3
- PHI 1120 (PL) Professional Ethics 3

### Business Management Elective

6

### Construction Science and Construction Management

- CMT 3000 Construction Estimating and Bidding 3
- CMT 3010 Introduction to Construction Management 3
- CMT 3030 Construction Safety Management 3
- CMT 3020 Residential and Commercial Land Development and Design 3
- CMT 3040 Building Codes 3
- CMT 3060 Planning and Scheduling 3
- CMT 3070 Introduction to Green Construction 3
- CMT 3080 Advanced Computers in Construction 3
- CMT 4050 Construction Methods 3
- CMT 4070 Mechanical and Electrical Systems in Buildings 3
- CMT 4200 (WI) Senior Project 3

### Lower Division Technical Transfer Credit

See Technology Transfer Credit (http://bulletins.wayne.edu/undergraduate/college-engineering/academic-regulations-engineering-technology-division)

- Introduction to 2D and 3D CAD 3
- Soils and Foundations 3
- Applied Building Construction 3
- Construction Laws and Administration 2
- Other technology courses 20

### Communication Requirements

- (BC) Basic Composition course 3
- (IC) Intermediate Composition course 3
- (OC) Oral Communication course 3

### General Education Requirements
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>American Society and Institutions (AI)</td>
<td>3</td>
</tr>
<tr>
<td>Critical and Analytic Thinking (CT)</td>
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<tr>
<td>Foreign Culture (FC)</td>
<td>3</td>
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<tr>
<td>Historical Studies (HS)</td>
<td>3</td>
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<tr>
<td>Visual and Performing Arts (VP)</td>
<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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