# BS in CONSTRUCTION AND FACILITIES MANAGEMENT: Construction Management Emphasis (396521) MAP Sheet

School of Technology

For students entering the degree program during the 2015–2016 curricular year.

## UNIVERSITY CORE AND GRADUATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY CORE REQUIREMENTS</strong></td>
<td></td>
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<tr>
<td><strong>Religion Cornerstones</strong></td>
<td></td>
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<tr>
<td>Teachings and Doctrine, Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>Rel A 275</td>
</tr>
<tr>
<td>Jesus Christ &amp; the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>Rel A 250</td>
</tr>
<tr>
<td>Foundations of the Restoration</td>
<td>1</td>
<td>2.0</td>
<td>Rel C 225</td>
</tr>
<tr>
<td>The Eternal Family</td>
<td>1</td>
<td>2.0</td>
<td>Rel C 200</td>
</tr>
<tr>
<td><strong>The Individual and Society</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Citizenship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Heritage</td>
<td>1–2</td>
<td>3–6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global &amp; Cultural Awareness</td>
<td>1</td>
<td>3.0</td>
<td>Eng T 231*</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td></td>
<td></td>
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<tr>
<td>Effective Communication</td>
<td></td>
<td></td>
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<tr>
<td>First-Year Writing</td>
<td>1</td>
<td>3.0</td>
<td>Wrtg 150</td>
</tr>
<tr>
<td>Adv Written &amp; Oral Communication</td>
<td>1</td>
<td>3.0</td>
<td>M Com 320* or Engl 316*</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>0–1</td>
<td>0–3.0</td>
<td>Acc 200* or Math 111*</td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1</td>
<td>3.0</td>
<td>Stat 121*</td>
</tr>
<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Civilization 1 and 2</td>
<td>2</td>
<td>6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Letters</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Scientific Principles &amp; Reasoning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological Science</td>
<td>1–2</td>
<td>3–5.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Physical Science</td>
<td>1</td>
<td>3.0</td>
<td>CFM 302*</td>
</tr>
<tr>
<td>Social Science</td>
<td>1</td>
<td>3.0</td>
<td>Econ 110* or Eng T 231*</td>
</tr>
<tr>
<td><strong>Core Enrichment: Electives</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Religion Electives</td>
<td>3–4</td>
<td>6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
</tr>
</tbody>
</table>

**GRADUATION REQUIREMENTS:**

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0

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## PROGRAM REQUIREMENTS (83 total hours)

<table>
<thead>
<tr>
<th>Complete the following courses:</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acc 200* Principles of Accounting</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 105 Intro to Constr. &amp; Facilities Management</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 155 Construction Modeling</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 210 Light Structural Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 241 Electrical Systems in Construction</td>
<td>2.0</td>
</tr>
<tr>
<td>CFM 511 Quantity Takeoffs</td>
<td>4.0</td>
</tr>
<tr>
<td>CFM 320 Mechanical Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 385 Construction Contracts and Law</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 412 Construction Scheduling and Cost Control</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 415 Construction Project Mgt and Control</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 426 Real Estate Principles and Development</td>
<td>4.0</td>
</tr>
<tr>
<td>CFM 445 Construction Company Operations &amp; Mgt.</td>
<td>3.0</td>
</tr>
<tr>
<td>CFM 460 Sustainability &amp; Regulatory Building</td>
<td>3.0</td>
</tr>
<tr>
<td>Eng T 231* Foundations of Global Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>Math 111* Trigonometry</td>
<td>2.0</td>
</tr>
<tr>
<td>Stat 121* Principles of Statistics</td>
<td>3.0</td>
</tr>
<tr>
<td>Complete one course from the following:</td>
<td></td>
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<tr>
<td>Engl 316* Technical Communication</td>
<td>3.0</td>
</tr>
<tr>
<td>MCom 320* Commun. in Organizational Settings</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Complete the following:**

- CFM 191 New C&F Manag. Student Seminar                    | 0.5     |

**Complete four enrollments of the following (cannot be taken the same semester as CFM 191 or 491):**

- CFM 291R Undergraduate Seminar                            | 0.5     |

**Complete the following during the next-to-last semester before graduation:**

- CFM 491 Senior Seminar                                    | 0.5     |

**Complete the following supporting courses:**

- CE En 113 Engineering Measurements                        | 3.0     |
- CFM 217 Concrete and Job-Site Layout                       | 3.0     |
- CFM 302* Strctrs & Strngth of Materials Fndmnts            | 4.0     |
- CFM 335 Constr. Equipment & Soils Mechanics               | 3.0     |
- CFM 345 Construction Safety Management                     | 2.0     |
- CFM 411 Pre-Construction Services                         | 4.0     |
- CFM 416R Capstone 1                                        | 1.0     |
- Econ 110* Economic Principles and Problems                | 3.0     |
- Phscs 105 General Physics                                 | 3.0     |

Students in the Construction and Facilities Management program must attend BYU during the spring or summer term, taking two required CFM courses.

Students must complete 300 hours of preapproved construction/facilities-related work after declaring the major, and must submit a report during the CFM 491 class.

Complete department packet and exit interview.

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FOR UNIVERSITY CORE QUESTIONS CONTACT THE ADVISEMENT CENTER  –  FOR PROGRAM QUESTIONS SEE ADVISOR IN 250 SNLB

*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (19 hours overlap)*
BS in CONSTRUCTION AND FACILITIES MANAGEMENT: Construction Management Emphasis (396521)
2015–2016

Suggested Sequence of Courses:

FRESHMAN YEAR
1st Semester
Wrtg 150 or A Htg 100* 3.0
CFM 105 3.0
Math 111 2.0
Bio 100 3.0
Religion Cornerstone course 2.0
Religion elective 2.0
Total Hours 15.0

2nd Semester
Stat 121 3.0
Wrtg 150 or A Htg 100 3.0
CFM 191 3.0
CFM 210 3.0
Religion Cornerstone course 2.0
Total Hours 14.5

SOPHOMORE YEAR
3rd Semester
CFM 155 3.0
CFM 291R 0.5
CFM 311 4.0
CFM 385 3.0
Phscs 105 3.0
Religion Cornerstone course 2.0
Total Hours 15.5

4th Semester
CFM 291R (FW) 0.5
CFM 291R (FW) 0.5
Econ 110 3.0
Civilization 2 & Arts/Letters 3.0
Religion elective 2.0
Total Hours 15.0

JUNIOR YEAR
5th Semester
CE En 113 3.0
CFM 241 2.0
CFM 291R (FW) 0.5
CFM 412 3.0
Engl 316 or MCom 320 3.0
Arts or Letters 3.0
Total Hours 14.5

6th Semester
CFM 411 4.0
CFM 415 3.0
CFM 426 4.0
CFM 460 3.0
CFM 491 0.5
Total Hours 14.5

SENIOR YEAR
7th Semester
CFM 291 0.5
CFM 335 3.0
CFM 345 2.0
CFM 416 3.0
Civilization 1 3.0
Religion elective 2.0
Elective 2.0
Total Hours 15.5

8th Semester
CFM 445 4.0
Econ 110 3.0
Civilization 2 & Arts/Letters 3.0
Religion elective 2.0
Elective 3.0
Total Hours 15.0

THE DISCIPLINE:
Construction management focuses on real estate development and construction project management. It requires technical expertise and the ability to work with a wide variety of industry professionals. Construction management offers careers that require abilities in project management, business management, engineering, architecture, and an understanding of construction systems.

ACADEMIC QUALITY:
Facilities - The department utilizes the most advanced and innovative construction related university computer laboratories in the nation. Facilities for construction technologies, CAC, and other related areas are also high quality.
Special programs - The CM program is involved in a variety of special activities during the year.
• National Student Construction Management competition- National Association of Home Builders.
• National and Regional Student Construction Management competition - Associated Schools of Construction.
• Other community service projects (Highway cleanup, Parade of Homes, etc.).
• Habitat for Humanity.
Faculty expertise - The program has eight faculty members with a wide range of interests and expertise. All faculty have experience in industry. Three faculty have a nationwide reputation in project management (scheduling) and estimating. Graduating majors commonly comment that the faculty offer excellent program advisement, are friendly and have personal interest in them as students. Many of the faculty are involved in writing for professional and academic journals and in making presentations at regional and national conventions.

PROFESSIONAL AND HONOR SOCIETIES:

INTERNSHIP EXPERIENCES:
Internships, and practical experience are all required. One of the hallmarks of the program is the 300 hr. practical application of skills and technologies. Pre-professional training - Construction Management is an ideal course for pre-architectural, business, and law students.

FINANCING:
Scholarships are available for CM Professional. Also a number of upper-division students are hired as laboratory assistants and teaching assistants.

CAREERS:
Graduates find employment in a variety of construction-industry-related positions. Typical position titles are superintendent, estimator, scheduler, field engineer, general contractor, safety engineer, project manager, procurement manager, project engineer, cost controller, site analyst, etc. Alumni find they are qualified for employment in all types of construction. It is a broad-based program that provides the training and experience needed for several occupational opportunities.

This major is also excellent preparation for students desiring graduate study in architecture, business management, or construction law.

GRADUATE SCHOOL:
There will be increasing need for construction managers at all levels. These managers should possess advanced skills in management because of the increased interest in a Construction Management advanced degree, BYU’s CM program has a CM Master’s degree.

*Hist 220 or Pl Sc 110 combined with the required Econ 110 course can fill the American Heritage requirement.

Note: Students are encouraged to complete an average of 15–16 credit hours each semester or 30–32 credit hours each year, which could include regular and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

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