### BS in Construction and Facilities Management: Construction Management (396521) MAP Sheet

**Engineering, School of Technology**

For students entering the degree program during the 2018-2019 curricular year.

<table>
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<tr>
<th>University Core and Graduation Requirements</th>
<th>Suggested Sequence of Courses</th>
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<td><strong>University Core Requirements:</strong></td>
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<td><strong>#Classes</strong></td>
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<td><strong>Hours</strong></td>
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<tr>
<td><strong>Religion Cornerstones</strong></td>
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<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>1 RE 275</td>
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<td>Jesus Christ and the Everlasting Gospel</td>
<td>1 REL A 250</td>
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<td>Foundations of the Restoration</td>
<td>1 REL C 225</td>
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<td>The Eternal Family</td>
<td>1 REL A 200</td>
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<tr>
<td><strong>The Individual and Society</strong></td>
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<tr>
<td>American Heritage</td>
<td>1-2 3-6.0 from approved list</td>
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<tr>
<td>Global and Cultural Awareness</td>
<td>1 ENG T 231*</td>
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<td><strong>Skills</strong></td>
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<tr>
<td>First Year Writing</td>
<td>1 3.0 WRTG 150</td>
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<tr>
<td>Advanced Written and Oral Communications</td>
<td>1 3.0 M COM 320* or ENG T 316*</td>
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<tr>
<td>Quantitative Reasoning</td>
<td>1 3.0 ACC 200*</td>
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<td>Languages of Learning (Math or Language)</td>
<td>1 3.0 STAT 121*</td>
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<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
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<tr>
<td>Civilization 1</td>
<td>1 3.0 from approved list</td>
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<tr>
<td>Civilization 2</td>
<td>1 3.0 from approved list</td>
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<td>Arts</td>
<td>1 3.0 from approved list</td>
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<tr>
<td>Letters</td>
<td>1 3.0 from approved list</td>
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<tr>
<td>Biological Science</td>
<td>1 3-4.0 from approved list</td>
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<tr>
<td>Physical Science</td>
<td>1 3.0 CFM 302*</td>
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<tr>
<td>Social Science</td>
<td>1 3.0 ECON 110* or ENG T 231*</td>
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<td><strong>Core Enrichment: Electives</strong></td>
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<tr>
<td>Religion Electives</td>
<td>3-4 6.0 from approved list</td>
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<td>Open Electives</td>
<td>Variable</td>
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<td>personal choice</td>
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FOR UNIVERSITY CORE QUESTIONS CONTACT THE ADVISEMENT CENTER — FOR PROGRAM QUESTIONS SEE ADVISOR IN 250 SNLB.

**Graduation Requirements:**

Minimum residence hours required: 30.0

Minimum hours needed to graduate: 120.0

*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 spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.
BS in Construction and Facilities Management: Construction Management (396521)
2018-2019 Program Requirements (83 - 85 Credit Hours)

Students receiving C- or lower grades in required courses will be placed on department probationary status.

REQUIREMENT 1 Complete 16 courses
- ACC 200 - Principles of Accounting 3.0
- CFM 155 - Construction Modeling 3.0
- CFM 241 - Electrical Systems in Construction 3.0
- CFM 277 - Estimating Processes and Spreadsheets 4.0
- CFM 320 - Mechanical Systems 3.0
- CFM 385 - Construction Contracts and Law 3.0
- CFM 412 - Construction Scheduling and Cost Control 3.0
- CFM 415 - Construction Project Management and Control 3.0
- CFM 426 - Real Estate Principles and Development 4.0
- CFM 445 - Construction Company Operations and Management 4.0
- CFM 460 - Sustainability and Regulatory Building Solutions 3.0
- ENG 231 - Foundations of Global Leadership 3.0
- MATH 111 - Trigonometry 2.0
- *STAT 121 - Principles of Statistics 3.0

REQUIREMENT 2 Complete 1 course
- ENGL 316 - Technical Communication 3.0
- M COM 320 - Communication in Organizational Settings 3.0

REQUIREMENT 3 Complete 2.5 hours from the following course(s)
- CFM 291R - Undergraduate Seminar 0.5

You may take this course up to 5 times.

REQUIREMENT 4 Complete 1 course
- CFM 491 - Senior Seminar 0.5

REQUIREMENT 5 Complete 9 courses
- CFM 213 - Construction Surveying and Layout 2.0
- CFM 217 - Concrete, Masonry, and Asphalt 3.0
- *CFM 302 - Structures and Strength of Materials Fundamentals 4.0
- CFM 335 - Construction Equipment and Soils Mechanics 3.0
- CFM 345 - Construction Safety Management 2.0
- CFM 411 - Pre-Construction Services 4.0
- CFM 416 - Capstone 3.0
- ECON 110 - Economic Principles and Problems 3.0
- HS305 105 - General Physics 1 3.0

REQUIREMENT 6 Complete 1 option
- COMPLETE ONE COURSE FROM ONE OF THE FOLLOWING OPTIONS:

  **OPTION 6.1 Complete 1 course**
  **FACILITIES AND PROPERTY MANAGEMENT OPTION:**
  - CFM 330 - Advanced Mechanical, Electrical, and Plumbing Systems 3.0
  - CFM 400 - Managing High Performance Buildings 3.0
  - CFM 420 - Commercial Real Estate Management 3.0

  **OPTION 6.2 Complete 1 course**
  **ARCHITECTURE OPTION:**
  - ARTHC 329 - Renaissance and Baroque Architecture 3.0
  - ARTHC 365 - American Architecture 3.0
  - ARTHC 367 - Modern Architecture 3.0

  **OPTION 6.3 Complete 1 course**
  **BUSINESS MANAGEMENT OPTION:**
  - FIN 201 - Principles of Finance 3.0
  - HRM 300 - Organizational Behavior 3.0
  - MKTG 201 - Marketing Management 3.0

  **OPTION 6.4 Complete 1 course**
  **MENTORED STUDENT EXPERIENCE OPTION:**
  - CFM 317R - Capstone 2 - Competition 1.0
  - CFM 318R - Capstone 2 - International 1.0
  - CFM 399R - Capstone Internship 3.0

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

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

REQUIREMENT 7 Complete department packet and exit interview.

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 declared majors. 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.

MAP DISCLAIMER
While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

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