



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

School of Technology

For students entering the degree program during the 2016–2017 curricular year.

UNIVERSITY CORE AND GRADUATION REQUIREMENTS				PROGRAM REQUIREMENTS (82-84 total hours)		
<b>UNIVERSITY CORE REQUIREMENTS</b>				<b>Complete the following courses:</b>		
<u>Requirements</u>	<u>#Classes</u>	<u>Hours</u>	<u>Classes</u>	Acc 200* Principles of Accounting	3.0	<b>Complete one course from the following:</b>
<b>Religion Cornerstones</b>				CFM 105 Intro to Constr. & Facilities Management	3.0	<i>Facilities and Property Management</i>
Teachings and Doctrine, Book of Mormon	1	2.0	Rel A 275	CFM 155 Construction Modeling	3.0	CFM 330 Adv. Mech, Elec, & Plumbing Systems
Jesus Christ & the Everlasting Gospel	1	2.0	Rel A 250	CFM 210 Light Structural Systems	3.0	CFM 400 Managing High Performance Buildings
Foundations of the Restoration	1	2.0	Rel C 225	CFM 241 Electrical Systems in Construction	2.0	CFM 420 Commercial Real Estate Management
The Eternal Family	1	2.0	Rel C 200	CFM 311 Quantity Takeoffs	4.0	
<b>The Individual and Society</b>				CFM 320 Mechanical Systems	3.0	<i>Architecture</i>
Citizenship				CFM 385 Construction Contracts and Law	3.0	ArHC 329 Renaissance & Baroque Architecture
American Heritage	1-2	3-6.0	from approved list	CFM 412 Construction Scheduling and Cost Control	3.0	ArHC 365 American Architecture
Global & Cultural Awareness	1	3.0	Eng T 231*	CFM 415 Construction Project Mgt and Control	3.0	ArHC 367 Modern Architecture
<b>Skills</b>				CFM 426 Real Estate Principles and Development	4.0	<i>Business Management</i>
Effective Communication				CFM 445 Construction Company Operations & Mgt.	3.0	Bus M 241 Marketing Management
First-Year Writing	1	3.0	Wrtg 150	CFM 460 Sustainability & Regulatory Building	3.0	Fin 201 Principles of Finance
Adv Written & Oral Communication	1	3.0	M Com 320* or Engl 316*	Eng T 231* Foundations of Global Leadership	3.0	Org B 320 Organizational Effectiveness
Quantitative Reasoning	0-1	0-3.0	Acc 200* or Math 111*	Math 111* Trigonometry	2.0	
Languages of Learning (Math or Language)	1	3.0	Stat 121*	Stat 121* Principles of Statistics	3.0	<i>Mentored Student Experience</i>
<b>Arts, Letters, and Sciences</b>				<b>Complete one course from the following:</b>		CFM 317 Capstone 2-Competition
Civilization 1 and 2	2	6.0	from approved list	Engl 316* Technical Communication	3.0	CFM 318R Capstone 2-International
Arts	1	3.0	from approved list	MCom 320* Commun. in Organizational Settings	3.0	CFM 399R Capstone Internship
Letters	1	3.0	from approved list	<b>Complete the following:</b>		
Scientific Principles & Reasoning				CFM 191 New C&F Manag. Student Seminar	0.5	<b>Students in the Construction and Facilities Management program must attend BYU during the spring or summer term, taking two required CFM courses.</b>
Biological Science	1-2	3-5.0	from approved list	<b>Complete four enrollments of the following (cannot be taken the same semester as CFM 191 or 491):</b>		
Physical Science	1	3.0	CFM 302*	CFM 291R Undergraduate Seminar	0.5	<b>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.</b>
Social Science	1	3.0	Econ 110* or Eng T 231*	<b>Complete the following during the next-to-last semester before graduation:</b>		
<b>Core Enrichment: Electives</b>				CFM 491 Senior Seminar	0.5	<b>Complete department packet and exit interview.</b>
Religion Electives	3-4	6.0	from approved list	<b>Complete the following supporting courses:</b>		
Open Electives	Variable	Variable	personal choice	CFM 217 Concrete and Job-Site Layout	4.0	
				CFM 302* Strctrs & Strngth of Materials Fndmntls	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	3.0	
				Econ 110* Economic Principles and Problems	3.0	
				Phscs 105 General Physics 1	3.0	
<b>GRADUATION REQUIREMENTS:</b>						
Minimum residence hours required		30.0				
Minimum hours needed to graduate		120.0				

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)  
2016–2017**

**Suggested Sequence of Courses:**

**FRESHMAN YEAR**

<u>1st Semester</u>	
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
<b>Total Hours</b>	<b>15.0</b>

2nd Semester

Stat 121	3.0
Wrtg 150 or A Htg 100	3.0
CFM 191	0.5
CFM 210	3.0
CFM 217	4.0
Religion Cornerstone course	2.0
<b>Total Hours</b>	<b>15.5</b>

**SOPHOMORE YEAR**

<u>3rd Semester</u>	
CFM 155	3.0
CFM 291R	0.5
CFM 311	4.0
CFM 345	2.0
Phscs 105	3.0
Religion Cornerstone course	2.0
<b>Total Hours</b>	<b>14.5</b>

4th Semester

CFM 291R (FW)	0.5
CFM 302	4.0
CFM 320	3.0
Acc 200	3.0
Eng T 231	3.0
Religion Cornerstone course	2.0
<b>Total Hours</b>	<b>15.5</b>

**JUNIOR YEAR**

<u>5th Semester</u>	
CFM Elective	1-3.0
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
<b>Total Hours</b>	<b>12.5-14.5</b>

6th Semester

CFM 411	4.0
CFM 415	3.0
CFM 426	4.0
CFM 460	3.0
CFM 491	0.5
<b>Total Hours</b>	<b>14.5</b>

**SENIOR YEAR**

<u>7th Semester</u>	
CFM 291	0.5
CFM 335	3.0
CFM 385	3.0
CFM 416	3.0
Civilization 1	3.0
Religion elective	2.0
Elective	2.0
<b>Total Hours</b>	<b>16.5</b>

8th Semester

CFM 445	4.0
Econ 110	3.0
Civilization 2 & Arts/Letters	3.0
Religion elective	2.0
Elective	3.0
<b>Total Hours</b>	<b>15.0</b>

**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:**

Student chapter of National Association of Home Builders, Associated General Contractors, Associated Builders and Contractors, American Society of Professional Estimators.

**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 PI 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.

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