

# CONSTRUCTION MANAGEMENT, BACHELOR OF SCIENCE (533)

## Program Coordinator

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Construction Management involves planning, coordination, and control of projects from inception to completion. Construction Managers work out of a main or field office to perform a variety of important functions, including Project Planning, Cost Management, Time Management, Quality Management, Safety Management, and Contract Administration.

## Career Opportunities

Graduates obtain employment in a wide variety of organizations, including construction management firms, general contractors, and specialty contractors serving the commercial, industrial, heavy civil, and residential construction sectors. They may choose to become specialists in estimating, scheduling, safety, quality, or field supervision. Typical job titles include project manager, project engineer, office engineer, field engineer, estimator, quantity surveyor, and superintendent, along with many others.

## Program Description

The program in Construction Management is designed to provide students with technical and managerial skills needed to assume leading positions in the construction industry. A minor or second major is not required. Course requirements for the major are shown below. Students should consult with an advisor in planning their four-year degree program.

## Program Requirements (71-72 hours)

A baccalaureate degree requires a minimum of 120 unduplicated semester hours. More information can be found at [www.wku.edu/registrar/degree\\_certification.php](http://www.wku.edu/registrar/degree_certification.php). ([https://www.wku.edu/registrar/degree\\_certification.php](https://www.wku.edu/registrar/degree_certification.php))

Students who began WKU in the Fall 2014 and thereafter should review the Colonnade requirements located at: <https://www.wku.edu/colonnade/colonnaderequirements.php>. (<https://www.wku.edu/colonnade/colonnaderequirements.php>)

Code	Title	Hours
CM 261	Construction Methods and Materials	3
CM 282	Building Structures	3
CM 363	Construction Estimating and Bidding	3
CM 462	Construction Scheduling	3
CM 490	Senior Research for Construction Management	3
AS 163	Architectural Drafting	3
AS 305	Building Codes	3
CE 160 & CE 161	Principles of Surveying and Principles of Surveying Lab	4

CE 303	Construction Management	3
CE 316	Equipment & Methods	3
CE 370 & CE 371	Materials of Construction and Construction Materials Laboratory	3
CE 410 & CE 411 or CM 346	Soil Mechanics and Soil Mechanics Lab Applied Soil Mechanics and Foundations	3-4
MATH 183 or ECON 206 or MFGE 271	Introductory Statistics Statistics Industrial Statistics	3
SEAS 325	Survey of Building Systems	3
SEAS 398	Internship I	1
ACCT 110 or FIN 161	Accounting for Decision Makers Personal Finance	3
ECON 202 or ECON 203	Principles of Economics (Micro) Principles of Economics (Macro)	3
MGT 200	Legal Environment of Business	3
MGT 210	Organization and Management	3
MKT 220	Basic Marketing Concepts	3
CM Technical Electives - Take 12 hours of the following courses.		12
AS 351	Building Information Modeling	
BDAN 250	Introduction to Analytics	
BDAN 305	Data Modeling and Analysis	
BDAN 310	Business Data Analytics	
BDAN 330	Structured Data Analysis	
CE 378	Route Surveying	
CE 380	Boundary Surveying	
CE 426	Advanced Construction Materials	
ECON 305	Labor Economics	
ECON 307	Financial Data Modeling	
ECON 385	Economic Development	
ECON 414	Managerial Economics	
ENG 306 or ENG 307	Business Writing Technical Writing	
ENT 312	Entrepreneurship	
ENT 380	New Venture Business Planning	
FIN 330	Principles of Finance	
FIN 350	Risk Management and Insurance	
FIN 389	Financial Analysis and Modeling	
GISC 316	Geographic Information Systems I	
GISC 317	Geographic Information Systems II	
GISC 414	Remote Sensing Fundamentals	
GISC 417	GIS Analysis & Modeling	
GISC 477	Special Topics in GIS	
MFGE 310	Safety in Industry	
MFGE 390 or ETM 390	Project Management Project Planning and Execution	
MGT 301	Business Law	
MGT 305	Ethics and Critical Thinking	
MGT 311	Human Resource Management	
MGT 313	Decision Modeling	

MGT 314	Operations Management	
MGT 326	Managing Projects in Organizations	
MGT 400	Employment Law	
MGT 423	Sourcing and Procurement Management	
MKT 325	Personal Selling	
MKT 425	Advanced Personal Selling Strategies	
SEAS 367	Supervised Work Experience in Industry	
<b>Total Hours</b>		<b>71-72</b>

## Support Courses

Code	Title	Hours
Choose a Chemistry Course and Lab		4-5
CHEM 105 & CHEM 106	Fundamentals of General Chemistry and Fundamentals of General Chemistry Laboratory	
CHEM 120 & CHEM 121	College Chemistry I and College Chemistry I Laboratory	
GEOL 111	The Earth	3
MATH 117	Trigonometry	3
or MATH 118	College Algebra and Trigonometry	
or MATH 136	Calculus I	
<b>Total Hours</b>		<b>10-11</b>

## Finish in Four Plan

### First Year

Fall	Hours	Spring	Hours
AS 163		3 HIST 101 or HIST 102	3
MATH 117		3 GEOL 111	3
ENG 100		3 Colonnade: Literary Studies	3
Colonnade: Arts & Humanities		3 COMM 145	3
ACCT 110 or FIN 161		3 CM 261	3
		<b>15</b>	<b>15</b>

### Second Year

Fall	Hours	Spring	Hours
CM 282		3 MGT 210	3
CE 160		3 MATH 183	3
CE 161		1 MKT 220	3
MGT 200		3 ECON 202	3
CHEM 105 & CHEM 106		4 GENERAL ELECTIVE	3
		<b>14</b>	<b>15</b>

### Third Year

Fall	Hours	Spring	Hours
AS 305		3 CE 316	3
ENG 300		3 Connections - Local to Global	3
SEAS 325		3 CM 363	3
CM TECH ELECTIVE		3 CM TECH ELECTIVE	3
CE 303		3 CM TECH ELECTIVE	3
		<b>15</b>	<b>15</b>

### Fourth Year

Fall	Hours	Spring	Hours
CM 462		3 CM 490	3

CE 410	3 SEAS 398	1
CE 411	1 Connetions - Systems	3
CE 370	2 GENERAL ELECTIVE	4
CE 371	1 GENERAL ELECTIVE	4
CM TECH ELECTIVE	3	
Connections: Social & Cultural	3	
		<b>16</b>
<b>Total Hours 120</b>		<b>15</b>