

Bachelor of Science in Construction Management – Engineering Science Option

Prepares the student for professional practice as a construction manager. Provides a well rounded educational back ground in business, construction management and science, liberal arts, management, mathematics, and college physics. The program emphasizes construction science courses that are for the most part non-calculus based.

Construction Management – Engineering Science Option

English Composition	6 credits
ENG 101 and 102	
English Literature	3 credits
ENG 231 or 232	
Constitutions	4 credits
HIST 100 or PSC 101	
Mathematics	4 credits
MATH 181	
Distribution Requirement (Life & Physical Sciences & Analytical Thinking)	
Humanities and Fine Arts	9 credits
3 additional credits in humanities COM 101, PHI 248, 3 additional credits in fine arts	
Social Science	9 credits
ECON 190, EGG 307, 3 additional credits	
Multicultural	(see notes)
International	(see notes)

Engineering Sciences Option):

Pre-Major Courses:

English Composition (see general education requirements) ENG 101 and 102	
Mathematics	4 credits
MATH 181 (see general education requirements), MATH 182	
Humanities (see general education requirements) COM 101	
Sciences	12 credits
CHEM 121; PHYS 180, 180L, 182, 182L	
Construction Management	6 credits
CEM 100, 250	
Engineering	9 credits
CEE 110, 121, 241	

Other Required Courses (can be taken as Pre-Major or Advanced Standing):

Constitutions (see general education requirements) HIST 100 or PSC 101	
English Literature (see general education requirements) ENG 231 or 232	
Course to satisfy University Multicultural Requirement	(see note 1)
Mathematics	7 credits
MATH 283, STAT 463	
Social Sciences (see general education requirements) ECON 190, (see note 2), three hour elective	
Multicultural	(see note 1)
International	(see note 2)
Fine Arts (see general education requirements) PHI 248, three additional credits in Fine Arts	
Business	9 credits
ACC 201, BLW 302, ECON 102, MGT 301	

Advanced Standing Courses:

Social Science (see general education requirements) EGG 307	
Engineering	19 credits
CEE 301, 346, 370, 370L, 381, 444, 480	
Required Construction Management Courses	30 credits
CEM 253, 300, 301, 330, 350, 451, 452, 453, 454, 455, 485	

Total: _____ 133 credits

Notes:

1. The Academic Policies section of this catalog under General Education Core Requirements - Item 9, Multicultural Requirement, lists courses meeting the Multicultural requirement.
2. ECON 190 satisfies 3 credits of the social science requirement and the University International Requirement.
3. EGG 307, Engineering Economics, is approved by the University General Education Committee to meet 3 credits of the social science requirement.
4. UNLV requires six credits of humanities and 9 credits of social science. Six of these 15 credits must be taken before the student can achieve advanced standing status. ECON 190 and the Multicultural/Humanities elective may be taken either pre-major or advanced standing. EGG 307 must be taken after achieving advanced standing status.

B.S. in Construction Management (Engineering Science Option)

Beginning in Fall 2006

First Year - Fall		First Year - Spring	
ENG 101 Composition I*	Cr 3	ENG 102 Composition II*	Cr 3
MATH 181 Calculus I*	4	MATH 182 Calculus II*	4
CHEM 121 General Chemistry I*	4	PHYS 180 & 180L Physics for Scientists and Engr I*	4
CEM 100 Fundamentals Const Management*	3	CEE 110 Intro CE Design*	3
		COM 101 Oral Communication*	3
Total	14	Total	17
Second Year - Fall		Second Year - Spring	
MATH 283 Calculus III	Cr 4	CEE 370 & 370L Mechanicals of Materials	Cr 4
CEE 121 Elementary Surveying*	3	Fine Arts Elective	3
CEE 241 Statics*	3	ECON 190 Global Economics	3
CEM 250 Construction Methods & Matls*	3	CEM 253 Quantity Surveying & Doc. Analysis	3
PHYS 182/182L Physics for Scientists and Engr III*	4	HIST 100 or PSC 101 - Constitutions reqt	4
		ECON 102 Principles of Microeconomics	3
Total	17	Total	20
Third Year - Fall		Third Year - Spring	
CEE 381 Structural Analysis	Cr 3	CEM 330 Soils and Foundations for Construction	Cr 3
CEM 350 Facility Systems Design/Const I	3	CEE 301 CAD Tools for CE Design	3
EGG 307 Engineering Economics	3	CEE 346 Engineering Materials	3
Social Sciences Elective	3	ACC 201 Financial Accounting	3
STAT 463 Applied Statistics for Engineers	3	BLW 302 Legal Environment	3
CEM 301 Construction Safety	2		
Total	17	Total	15
Fourth Year - Fall		Fourth Year - Spring**	
CEE 480 Concrete Structure Design	Cr 3	CEE 444 Steel Structural Design	Cr 3
CEM 451 Construction Estimating	3	CEM 455 Construction Mgmt Practice	3
CEM 452 Construction Cost Control	3	CEM 485 Construction Law & Contracts	3
CEM 453 Construction Scheduling	3	MGT 301 Principles of Mgmt & Org Behavior	3
CEM 454 Construction Equipment	3	PHI 248 Professional Ethics	3
ENG 231 or 232 World Literature I or II*	3		
Total	18	Total	15

Third Year - Summer
CEM 300 Const Industry Practicum 0

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TOTAL CREDITS = **133**

* Pre-program requirement

^ Humanities elective to satisfy Multicultural reqt

**COE Level I Exam should be taken in final year