

# DEPARTMENT OF CIVIL ENGINEERING AND CONSTRUCTION ENGINEERING MANAGEMENT

## BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT DEGREE (ET BS01) IN FOUR YEARS <AY2021-2022 CSULB Catalog>

### Four Year Plan 120 Units Required

#### Semester 1

Course	Units
CEM 121 Construction Drawing 1	2
CEM 125 Fund of Construction	3
MATH 122 Calculus 1 (GE B4)	4
Oral Communication/Speech (GE A1; FND)	3
CE 130 & 130L Surveying & Mapping & Lab	2
CE 101 Introduction to CE & CEM (GE E3)	1
ENGR 101 Introduction to Engineering Pr (GE E1)	1
<b>TOTAL UNITS</b>	<b>16</b>

#### Semester 2

Course	Units
CEM 206 Trends in CEM	2
PHYS 100A General Physics (GE B1)	4
Written Communication (GE A2; FND)	3
ENGR 102 Academic Success Skills (GE E2)	1
GE Class (GE C1; Arts)	3
ACCT 201 Elementary Financial Accounting	3
<b>TOTAL UNITS</b>	<b>16</b>

#### Semester 3

Course	Units
CEM 200 & CEM 200L Const Materials& lab	2
CEM 204 Applied Mech Statics	3
CEM 225 Res/Lt Comm.Const	3
BLAW 220 Intro of Law and Buss Trans <u>or</u>	3
BLAW 320 Legal & Regulatory Env of Bus	
PHYS 100B General Physics	4
<b>TOTAL UNITS</b>	<b>15</b>

#### Semester 4

Course	Units
CEM 202 Prob.Stat for CEM	2
CEM 304 App Mech/Str of Materials	2
CEM 315 Construction Safety	2
CBA 300 Interinational Business	3
MGMT 300 Principle of Mgmt	3
GE Class (GE C2; Humanities)	3
<b>TOTAL UNITS</b>	<b>15</b>

#### Semester 5

Course	Units
ECON 300 Fund of Econ (GE UD-D)	3
CEM 324 Comm inst & Indus Const Prac	3
CEM 365 Mech Equip for Building	2
CEM 373 Fund. of Integrated Project Delivery	3
CE 406 Project Cost-Benefit Analysis (GE UD-D)	3
<b>TOTAL UNITS</b>	<b>14</b>

#### Semester 6

Course	Units
MGMT 413 Manag Quality for Product <u>or</u>	3
HRM 361 The Human Resource Function	
CEM 335 & CEM 335L Soil Mech Tech & Lab	3
CEM 375 Elec Equip for Build	2
CEM 421 Constr Planning & Scheduling	3
CEM 424 Earthwork & Civil work Constr	3
<b>TOTAL UNITS</b>	<b>14</b>

#### Semester 7

Course	Units
CEM 426 Constr Law & Contract Admin	3
CEM 429 Advanced Estimating & Bidding	3
CEM 437 Structural Building Systems	3
GE Class (GE D1; US History)	3
GE Class (GE D2; US Constitutions)	3
<b>TOTAL UNITS</b>	<b>15</b>

#### Semester 8

Course	Units
CEM 490 Constr Project Mgmt (GE UD-B)	3
CEM Technical Elective*	3
CEM Technical Elective*	3
GE Class (GE UD-C; Combined w/ Writing Intensive)	3
GE Class (GE F-ES; Ethnic Studies)	3
<b>TOTAL UNITS</b>	<b>15</b>

#### (\*) List of CEM Technical Elective courses (3 units each):

Alternative Project Delivery Emphasis (Design-Build/IPD): CEM 473, CEM 485, CEM 483

Sustainability in Construction Emphasis: CEM 432, CEM 481, CEM 482, CEM 483

Heavy Construction Emphasis: CEM 476, CEM 486, CEM 483

Field Work Experience – 3-month full-time employment in the construction industry is required before graduation

Note that either ECON 300 or CE 406 counts for GE UD-D. Whichever class students take first, it will show in their GE UD-D area

GE C3 Arts or Humanity is waived starting Fall 2021

GE A3 (Critical thinking, 3 units) and GE B2 (Life Science) are waived for CM majors.

Updated in April 2022 by Dr. Joseph Kim