BS CONSTRUCTION MANAGEMENT

Program Learning Objectives
1. Demonstrate a readiness and ability to perform in the construction industry.
2. Demonstrate an ability to apply problem solving skills and integrate technical knowledge.
3. Demonstrate an ability to participate successfully within an interdisciplinary team environment.
4. Demonstrate an understanding of professional behavior, ethical standards, and leadership attributes.
5. Demonstrate an ability to communicate effectively, both orally and written, and professionally present ideas.
6. Demonstrate a propensity for life long learning and service to the industry and community at large.

Degree Requirements and Curriculum
In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext) section of this catalog, including:

- 60 units of upper division courses
- Graduation Writing Requirement (GWR)
- 2.0 GPA
- U.S. Cultural Pluralism (USCP)

Note: No major or support courses may be selected as credit/no credit.

MAJOR COURSES
CM 102 Introduction to Construction Management 2
CM 113 Construction Materials and Assemblies 2
CM 114 Construction Materials and Assemblies Lab 2
CM 115 Fundamentals of Construction Management 6
CM 214 Residential Construction Management 5
CM 232 Evaluation of Cost Alternatives 3
CM 280 Building Information Modeling 2
CM 313 Commercial Construction Management 5
CM 314 Heavy Civil Construction Management 5
CM 317 Sustainability and the Built Environment (Area F) 4
CM 334 Construction Law 2
CM 335 Construction Accounting 2
CM 411 Specialty Contracting Construction Management 5
CM 413 Jobsite Construction Management 5
CM 443 Management of the Construction Firm 3
CM 450 Integrated Project, Design and Program Management 5
CM 460 Senior Project Methodology 2
CM 461 Senior Project I 1
CM 462 Senior Project II 1

Technical Electives
Select from the following: 8
CM 420 Service / Experiential Learning
CM 421 Emerging Trends
CM 422 Professional Preparation
CM 423 Construction Materials / Assemblies
CM 424 Construction Technology
CM 425 Sustainability and Environment
CM 426 International Construction Studies
CM 485 Cooperative Education Experience (6 units maximum)

SUPPORT COURSES
Select from the following: 6
ARCE 211 Structures I
& ARCE 212 and Structures II (3, 3)
ME 211 Engineering Statics
& CE 204 and Mechanics of Materials I (3, 3)
ARCE 226 Introduction to Structural Systems 3
ARCE 315 Introduction to Structural Design 4
ARCE 421 Soil Mechanics 3
BRAE 239 Engineering Surveying 4
or CM 239 Construction Surveying
BUS 207 Legal Responsibilities of Business 4
BUS 212 Financial Accounting for Nonbusiness Majors 4
BUS 215 Managerial Accounting 4
ECON 221 Microeconomics 4
ECON 222 Macroeconomics (D2) 4
ECON 303 Economics of Poverty, Discrimination and Immigration (D5) (USCP) 4
or ECON 304 Comparative Economic Systems
EDES 123 Principles of Environmental Design (D4) 4
ENGL 310 Corporate Communication (GWR) 4
GEOL 201 Physical Geology 3
MATH 141 Calculus I (B1) 4
MATH 182 Calculus for Architecture and Construction Management 2
MATH 183 Calculus for Architecture and Construction Management 2
PHYS 141 General Physics I 4
Select from the following: 4
PHYS 132 General Physics II (B3 & B4) 1
CHEM 124 General Chemistry for Physical Science and Engineering I (B3 & B4) 1
CHEM 127 General Chemistry for Agriculture and Life Science I (B3 & B4) 1
STAT 251 Statistical Inference for Management I (B1) 1
or STAT 312  Statistical Methods for Engineers

**GENERAL EDUCATION (GE)**
(See GE program requirements below.)  

**FREE ELECTIVES**
Free Electives  
Total units  

1  Required in Major/Support; also satisfies GE.  
2  MATH 142 Calculus II substitutes for MATH 182.

**General Education (GE) Requirements**
- 72 units required, 28 of which are specified in Major and/or Support.
- See the complete GE course listing (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext).
- Minimum of 12 units required at the 300 level.

<table>
<thead>
<tr>
<th>Area A</th>
<th>Communication</th>
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<tbody>
<tr>
<td>A1</td>
<td>Expository Writing</td>
</tr>
<tr>
<td>A2</td>
<td>Oral Communication</td>
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<tr>
<td>A3</td>
<td>Reasoning, Argumentation and Writing</td>
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<thead>
<tr>
<th>Area B</th>
<th>Science and Mathematics</th>
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<tbody>
<tr>
<td>B1</td>
<td>Mathematics/Statistics (8 units in Support)</td>
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<tr>
<td>B2</td>
<td>Life Science</td>
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<tr>
<td>B3</td>
<td>Physical Science (4 units in Support)</td>
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<td>B4</td>
<td>One lab taken with either a B2 or B3 course</td>
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<thead>
<tr>
<th>Area C</th>
<th>Arts and Humanities</th>
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<tbody>
<tr>
<td>C1</td>
<td>Literature</td>
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<tr>
<td>C2</td>
<td>Philosophy</td>
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<tr>
<td>C3</td>
<td>Fine/Performing Arts</td>
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<tr>
<td>C4</td>
<td>Upper-division elective</td>
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<tr>
<td>Area C elective</td>
<td>(Choose one course from C1-C5)</td>
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<thead>
<tr>
<th>Area D/E</th>
<th>Society and the Individual</th>
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<tbody>
<tr>
<td>D1</td>
<td>The American Experience (Title 5, Section 40404 requirement)</td>
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<tr>
<td>D2</td>
<td>Political Economy (4 units in Support)</td>
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<tr>
<td>D3</td>
<td>Comparative Social Institutions</td>
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<tr>
<td>D4</td>
<td>Self Development (CSU Area E) (4 units in Support)</td>
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<tr>
<td>D5</td>
<td>Upper-division elective (4 units in Support)</td>
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<tr>
<th>Area F</th>
<th>Technology</th>
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<tbody>
<tr>
<td>F</td>
<td>Upper-division elective (4 units in Major)</td>
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Total units 44

1  Required in Major/Support; also satisfies GE.