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 & ARCE 212 Structures I and Structures II (3, 3)
ME 211 & CE 204 Engineering Statics 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 142 Calculus for Architecture and Construction Management  4
PHYS 141 General Physics IA  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)  4
BS Construction Management

or STAT 312  Statistical Methods for Engineers

**GENERAL EDUCATION (GE)**

(See GE program requirements below.)

<table>
<thead>
<tr>
<th>FREE ELECTIVES</th>
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<tbody>
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<td>Free Electives</td>
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</tbody>
</table>

Total units 189

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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</thead>
<tbody>
<tr>
<td>A1</td>
<td>Expository Writing</td>
</tr>
<tr>
<td>A2</td>
<td>Oral Communication</td>
</tr>
<tr>
<td>A3</td>
<td>Reasoning, Argumentation and Writing</td>
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<table>
<thead>
<tr>
<th>Area B</th>
<th>Science and Mathematics</th>
</tr>
</thead>
<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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<tr>
<td>B4</td>
<td>One lab taken with either a B2 or B3 course</td>
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<table>
<thead>
<tr>
<th>Area C</th>
<th>Arts and Humanities</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Literature</td>
</tr>
<tr>
<td>C2</td>
<td>Philosophy</td>
</tr>
<tr>
<td>C3</td>
<td>Fine/Performing Arts</td>
</tr>
<tr>
<td>C4</td>
<td>Upper-division elective</td>
</tr>
<tr>
<td>Area C elective</td>
<td>(Choose one course from C1-C5)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Area D/E</th>
<th>Society and the Individual</th>
</tr>
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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>
</tr>
<tr>
<td>D3</td>
<td>Comparative Social Institutions</td>
</tr>
<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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<table>
<thead>
<tr>
<th>Area F</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Upper-division elective (4 units in Major)</td>
</tr>
</tbody>
</table>

Total units 44

1 Required in Major/Support; also satisfies GE.