Construction Management, B.S.

DEPARTMENT

Department of Construction Management
Brad Hyatt, Chair
Engineering East Building, Room 192
559.278.6056
www.fresnostate.edu/engineering

BS in Construction Management, B.S.
MN in Construction Management, Minor
The Bachelor of Science in Construction Management is accredited by the American Council for Construction Education, the professional accreditation organization of the construction industry.

Students in construction management (CM) are exposed to a wide variety of topics, ranging from courses in management and administration of construction companies, projects, people, and equipment to courses focusing on specific techniques for project planning and control work improvement and estimating. The Construction Management program also provides opportunities to develop a strong background in computer applications in construction. Computer skills combined with a solid management and technical background are major assets of the construction management graduate.

Opportunities for construction management graduates are excellent. Examples of positions held by construction management graduates are project manager, construction manager, project administrator, estimator, scheduler, architectural representative, project superintendent, and construction administrator. Students should consider this challenging, satisfying, and high-paying profession.

Mission of Construction Management
The mission of the Construction Management Program is to develop character, build leaders, and sustain learning.

Educational Objectives of the Instructional Program

• Provide students with the ability to recognize and independently diagnose construction related problems accurately, develop creative alternatives, and implement practical and effective solutions.
• Provide students with the ability to plan, schedule, and control work activities; motivate and provide accurate and timely constructive alternatives; and implement practical and effective solutions.
• Provide students with the ability to apply construction related techniques, skills, and tools to construction materials as necessary for a managed construction project.
• Provide students with the ability to understand technical issues related to the fields of architecture, engineering, business and construction accounting, and finance. Work effectively and efficiently with personnel from these disciplines to properly apply related fundamentals, techniques, and procedures.
• Provide students with the ability to apply basic construction related design theory within the areas of structural, mechanical, electrical, thermodynamics, civil, and soil mechanics.

REQUIREMENTS

Bachelor of Science Degree -
Construction Management Major Requirements

Program Description
The Bachelor of Science in Construction Management is accredited by the American Council for Construction Education, the professional accreditation organization of the construction industry.

Students in construction management (CM) are exposed to a wide variety of topics, ranging from courses in management and administration of construction companies, projects, people, and equipment to courses focusing on specific techniques for project planning and control work improvement and estimating. The Construction Management program also provides opportunities to develop a strong background in computer applications in construction. Computer skills combined with a solid management and technical background are major assets of the construction management graduate.
Opportunities for construction management graduates are excellent. Examples of positions held by construction management graduates are project manager, construction manager, project administrator, estimator, scheduler, architectural representative, project superintendent, and construction administrator. Students should consider this challenging, satisfying, and high-paying profession.

Mission of Construction Management

The mission of the Construction Management Program is to develop character, build leaders, and sustain learning.

Educational Objectives of the Instructional Program

- Provide students with the ability to recognize and independently diagnose construction related problems accurately, develop creative alternatives, and implement practical and effective solutions.
- Provide students with the ability to plan, schedule, and control work activities; motivate and provide accurate and timely constructive alternatives; and implement practical and effective solutions.
- Provide students with the ability to apply construction related techniques, skills, and tools to construction materials as necessary for a managed construction project.
- Provide students with the ability to understand technical issues related to the fields of architecture, engineering, business and construction accounting, and finance. Work effectively and efficiently with personnel from these disciplines to properly apply related fundamentals, techniques, and procedures.
- Provide students with the ability to apply basic construction related design theory within the areas of structural, mechanical, electrical, thermodynamics, civil, and soil mechanics.

Bachelor of Science Degree Requirements

Construction Management Major

Pre-construction management requirements (16 units)
CM 1S, 4, 7S, 20; CE 20; GME 15 and 15L

Upper-division core requirements (25 units)
CM 110, 116, 122, 127, 140, 170, 180A(S), 181, 193; CE 121 and 121L

Construction Management Electives (9 units)
Sector Electives (3 units)
Select one course from the following: CM 134, 150, 151, or 166

Construction Technology Electives (3 units)
Select one course from the following: CM 131 or 191T

Construction Methods Electives (3 units)
Select one course from the following: CM 132, CM 144, or CE 130

Other requirements (70 units)
General Education (41 units)
Select one course from each of the G.E. areas: Area A1, A2, A3, B2, C1, C2, D1, D2, and IC. (See G.E. listings). The following courses are required to satisfy both G.E. and major requirements: PHYS 4A and 4AL [B1], MATH 75 [B4], ECON 40 or 50 [D3], BA 104 [M/I]

Additional requirements (29 units)
MATH 76; EES 1 or CHEM 3A; DS 73; ACCT 4A; MGT 104; two business electives (see Business Electives below); BA 105W or ENGR 105W (see Upper-Division Writing Skills requirement below.) CM 180B satisfies the G.E. IB requirement.

- Business Electives (6 units)
  Select two courses from the following: upper-division business administration courses, CM 124, or courses approved by the academic adviser.
- Upper-division writing skills requirement (3 units)
  Construction management majors must select either BA 105W or ENGR 105W. The Upper-Division Writing Exam is not an option for construction management majors.

Total (120 units)*

* Note: Construction management majors are exempt from G.E. third course Area C, Area E, and Area ID.
Pre-Construction Management Requirements
All construction management students entering California State University, Fresno are considered pre-construction management majors and are coded as such. In order to enroll in 100-level construction management courses, pre-construction management students must do the following:

(a) Complete all of the following courses: MATH 75, MATH 76, PHYS 4A, PHYS 4AL, CM 1S, CM 4, CM 7S, CM 20, CE 20, GME 15, and GME 15L; (b) attain a "C" in six of the 11 courses listed above, with no course to be repeated more than twice; and (c) have a cumulative and campus grade point average of at least 2.00.

Advising Notes
1. Courses in mathematics and the physical sciences taken CR/NC are not counted toward fulfillment of degree requirements in construction.
2. The Upper-Division Writing Skills requirement must be met by completing a "W" course with a letter grade of C or better no sooner than the term in which 60 units of coursework are completed.
3. All construction management students must consult with their academic advisers at least once per academic year.

FACULTY
For faculty phone numbers and e-mail, see the campus directory.
For more on the faculty, see the faculty pages.
The faculty pages are updated by the department or program.

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crask, Lloyd A</td>
<td>Master of Business Admin</td>
<td><a href="mailto:lloydca@csufresno.edu">lloydca@csufresno.edu</a></td>
<td>559.278.8745</td>
</tr>
<tr>
<td>Hyatt, Brad</td>
<td>Master of Science</td>
<td><a href="mailto:bhyatt@csufresno.edu">bhyatt@csufresno.edu</a></td>
<td>559.278.7735</td>
</tr>
<tr>
<td>Luo, Yupeng</td>
<td>Doctor of Philosophy</td>
<td><a href="mailto:viluo@csufresno.edu">viluo@csufresno.edu</a></td>
<td>559.278.1792</td>
</tr>
<tr>
<td>Randel, Michele A</td>
<td>Master of Arts</td>
<td><a href="mailto:mrandel@csufresno.edu">mrandel@csufresno.edu</a></td>
<td>559.278.6056</td>
</tr>
<tr>
<td>Wu, Wei</td>
<td>Doctor of Philosophy</td>
<td><a href="mailto:weiwu@csufresno.edu">weiwu@csufresno.edu</a></td>
<td></td>
</tr>
</tbody>
</table>