Minor Change to an Undergraduate Program

Program Name: Construction Management

Complete only if applicable
Program named above is:
☐ Option within ________________________________
    (degree program name)
☐ Advising Pattern within ________________________________
    (option name)
within ________________________________
    (degree program name)
☐ Minor
☐ Certificate

☐ Changes being made affect a subject matter preparation or credential program.

Brief rationale for change:
Add CMGT 270 "Building Information Modeling" to Option Selection List of approved courses for CM Majors

Does the proposed change enhance or support the Diversity Action Plan (see definition & Task 3.1)? No
If yes, please explain.

Required Signatures

The Department of Construction Management has reviewed and approves this program change

[Signature]
Chair, Department Curriculum Committee

[Signature]
Department Chair

The College of ECC has reviewed and approves this program change

[Signature]
Chair, College Curriculum Committee

[Signature]
College Dean

Send signature page with proposal attached to Curriculum Services at Undergraduate Education, zip 128
Curriculum Technical Review Completed

Date

CSU Chico Curriculum Services

JAN 25 2017
RECEIVED
The Bachelor of Science in Construction Management

Total Course Requirements for the Bachelor's Degree: 120 units

See Bachelor's Degree Requirements in the University Catalog for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

A suggested Major Academic Plan (MAP) has been prepared to help students meet all graduation requirements within four years. You can view MAPs on the Degree MAPs page in the University Catalog or you can request a plan from your major advisor.

General Education Pathway Requirements: 48 units

See General Education in the University Catalog and the Class Schedule for the most current information on General Education Pathway Requirements and course offerings.

This major has approved GE modification(s). See below for information on how to apply these modification(s).

- MATH 120 is an approved advanced course substitution for Quantitative Reasoning (A4).
- CHEM 107 & PHYS 202A are advanced course substitution for Physical Science (B1).
- Take only one course in either Arts (C1) or Humanities (C2).
- CMGT 330 is an approved major course substitution for Upper-Division Natural Sciences.
- CMGT 360 is an approved GE Writing Intensive substitution.
- CMGT 455 is an approved GE Capstone substitution.

Diversity Course Requirements: 6 units

See Diversity Requirements in the University Catalog. Most courses taken to satisfy these requirements may also apply to General Education.

Literacy Requirement:

See Mathematics and Writing Requirements in the University Catalog. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or higher to receive WP credit. See the Class Schedule for the designated WP courses for each semester. You must complete the GE Written Communication (A2) requirement before you may register for a WP course.

Course Requirements for the Major: 90 units

Completion of the following courses, or their approved transfer equivalents, is required of all candidates for this degree.

Minimum GPA for acceptance in the major: for both continuing and transfer students, a minimum cumulative GPA of 2.0 is prerequisite for being accepted as a Construction Management major.

Priority for enrollment in all Construction Management (CMGT) courses will be given to CMGT majors. Construction Management students taking any CMGT course for the first time will be granted priority over CMGT students who are attempting to repeat a course.

Enrollment in any mathematics course requires a grade of C- or higher in all prerequisite courses or their transfer equivalents.

Lower-Division Requirements: 42 units

13 courses required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Introduction to Financial Accounting</td>
<td>3.0</td>
<td>SMF</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Introduction to Managerial Accounting</td>
<td>3.0</td>
<td>SMF</td>
</tr>
</tbody>
</table>
Prerequisites: ACCT 201.

CHEM 107 General Chemistry for Applied Sciences 4.0 FS GE

Prerequisites: Completion of ELM requirement, Intermediate Algebra.

CMGT 100 Concepts of Construction 2.0 FS

CMGT 110 Construction Graphics 3.0 FS

Prerequisite: Diagnostic assessment of fundamental knowledge for MS Operating System, Office, and Adobe software.

CMGT 135 Construction Materials and Systems 3.0 FS

CMGT 210 Analysis of Construction Drawings and Specifications 3.0 FS

Prerequisites: CMGT 110, CMGT 135.

CMGT 235 Electrical and Mechanical Systems 3.0 FS

Prerequisite: CMGT 210.

ECON 102 Principles of Macroeconomic Analysis 3.0 FS GE

ECON 103 Principles of Microeconomic Analysis 3.0 FS GE

MATH 120 Analytic Geometry and Calculus 4.0 FS GE

Prerequisites: Completion of ELM requirement; both MATH 118 and MATH 119 (or high school equivalent); a score that meets department guidelines on a department administered calculus readiness exam must be achieved by those who claim high school equivalence.

OR (the following course may be substituted for the above)

MATH 109 Survey of Calculus 4.0 FS GE

Prerequisites: Completion of ELM requirement; MATH 118, MATH 119 (or High School equivalents).

PHYS 202A General Physics 4.0 FS GE

Prerequisites: High school physics or faculty permission. High school trigonometry and second-year high school algebra or equivalent (MATH 051 and MATH 118 at CSU, Chico).

PHYS 202B General Physics 4.0 FS

Prerequisites: PHYS 202A with a grade of C- or higher.

Minimum Grade Requirement

The following courses or their equivalents must each be completed with a minimum grade of C prior to enrollment in any required 300-level CMGT course: ACCT 201, CMGT 100, CMGT 110, CMGT 135, CMGT 210, and PHYS 202A.

Upper-Division Requirements: 48 units

15 courses required:

| Course     | Title                                      | Units | Type | Type
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BADM 300</td>
<td>Communication in Business</td>
<td>3.0</td>
<td>FS</td>
<td>WP</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Completion of GE Written Communication (AA) requirement.</td>
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<tr>
<td>BLAW 302</td>
<td>Managing the Legal Environment</td>
<td>3.0</td>
<td>FS</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: At least junior standing.</td>
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<tr>
<td>BLAW 414</td>
<td>Labor Law and Collective Bargaining</td>
<td>3.0</td>
<td>FS</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: At least junior standing or faculty permission.</td>
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<tr>
<td>CMGT 330</td>
<td>Principles of Soil Mechanics and Foundations</td>
<td>3.0</td>
<td>FS</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisite: PHYS 202A.</td>
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<tr>
<td>CMGT 332</td>
<td>Construction Method Analysis</td>
<td>3.0</td>
<td>FS</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: CMGT 135.</td>
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<tr>
<td>CMGT 335</td>
<td>Construction Equipment</td>
<td>3.0</td>
<td>FS</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: CMGT 330.</td>
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http://catalog.csuchico.edu/viewer/CMGT/CMGTONONEBS.html
CMGT 340  Principles of Statics  3.0  FS  
**Prerequisites:** MATH 120 or equivalent; PHYS 202A.

CMGT 345  Mechanics of Materials  3.0  FS  
**Prerequisites:** CMGT 340.

CMGT 360  Construction Project Management  3.0  FS  
**Prerequisites:** CMGT 210.

CMGT 440  Temporary Structures  3.0  FS  
**Prerequisites:** CMGT 345.

CMGT 450  Construction Estimating  3.0  FS  
**Prerequisites:** CMGT 332, CMGT 360.

CMGT 455  Construction Cost Management  3.0  FS  
**Prerequisites:** CMGT 450.

CMGT 457  Project Control and Scheduling  3.0  FS  
**Prerequisites:** CMGT 450.

CMGT 458  Heavy Construction Estimating  3.0  FS  
**Prerequisites:** CMGT 335.

CMGT 490  Legal Aspects of Construction  3.0  FS  WP  
**Prerequisites:** Completion of GE Written Communication (A2) requirement, BLAW 302.

3 units selected from:  

<table>
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<th>Course Title</th>
<th>Units</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 320</td>
<td>Cost Management Accounting I</td>
<td>3.0</td>
<td>SMF</td>
</tr>
</tbody>
</table>

**Prerequisites:** ACCT 201, ACCT 202 both with a grade of C or higher.

CMGT 352  Electrical Construction Estimating  3.0  FS  

CMGT 380  Green Building Practices and LEED Certification  3.0  FS  

FINA 307  Survey of Finance  3.0  FS  
**Prerequisites:** ACCT 201, ECON 103.

MGMT 303  Survey of Management  3.0  FS  

MGMT 304  Human Resource Management  3.0  FS  

MGMT 345  Negotiation Techniques for Conflict Resolution  3.0  FA  

MINS 301  Corporate Technology Integration  3.0  FS  

MKTG 305  Survey of Marketing  3.0  FS  

REAL 301  Principles of Real Estate  3.0  FS  
**Prerequisites:** ECON 102, ECON 103.

OSCM 306  Operations Management  3.0  FS  
**Prerequisites:** Business Administration or Business Information Systems status required for business majors. Completion of GE Pathway Foundation Quantitative Reasoning required for all majors.

**Grading Requirement:**

All courses taken to fulfill major course requirements must be taken for a letter grade except those courses specified by the department as Credit/No Credit grading only.

**Advising Requirement:**

Advising is mandatory for all majors in this degree program. Consult your undergraduate advisor for specific information.
Honors in the Major:

Honors in the Major is a program of independent work in your major. It requires 6 units of honors course work completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are:

1. You must take 6 units of Honors in the Major course work. All 6 units are honors classes (marked by a suffix of H), and at least 3 of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each class with a minimum grade of B.
2. You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
3. Your cumulative GPA should be at least 3.5 or within the top 5% of majors in your department.
4. Your GPA in your major should be at least 3.5 or within the top 5% of majors in your department.
5. Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
6. Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.