

CONSTRUCTION MANAGEMENT, BACHELOR OF SCIENCE

The major in construction management leads to the Bachelor of Science (BS) degree in Construction Management. Graduates of the Construction Management (CM) program enter the industry as project superintendents, field supervisors, project managers, or owner's representatives for a variety of construction related firms such as general contractors, specialty subcontractors, construction managers, designers, developers, consultants, or owners.

Mission Statement

Producing construction professionals by providing construction management knowledge and skills to pursue multiple career and educational paths.

Program Goals

The goal of the Construction Management program is to prepare baccalaureate degree graduates who have the necessary skills to plan, organize, staff, lead and exercise control in the directing and coordinating of resources to achieve construction project objectives. Therefore, the objective of the program is to produce graduates who have the technical grounding in construction processes for infrastructure and have managerial skills to plan and direct projects.

Co-curricular Activities

The CM faculty supports and encourages the involvement of construction management majors in at least one technical organization relevant to the construction enterprise.

Specific Admission Requirements

Students are typically admitted into the Construction Management program as high school graduates, transfer students from other colleges, or transfer students from other units at this university. Therefore, students who join the Construction Management program must meet the Colorado State University-Pueblo admission requirements as described under admission requirements in this catalog.

Student Learning Outcomes

1. Apply knowledge, techniques, skills, and tools of the construction industry in construction activities.
2. Select and apply knowledge of mathematics, science, and technology to construction problems.
3. Perform standard tests, organize and interpret test data, and apply test results to improve construction processes.
4. Function effectively as members or leaders on construction teams.
5. Communicate effectively regarding subjects related to construction activities.
6. Demonstrate an understanding of professional and ethical responsibilities.

Outcomes Assessment Activities

- To be eligible for graduation, all construction management majors are required to take an exit examination. The results of the exit

examination are used in the evaluation of the program but have no effect on the student's GPA.

- Graduates and their employers are surveyed on program satisfaction and job performance following their graduation.
- The CM Advisory Committee meets every year to review the three year cycle report and make suggestions for program improvement. The committee also meets with current CM students for an open discussion regarding the CM program.

Specific Program Requirements

Program Overview

Requirement	Credits
General Education	35
Major Requirements	58
Concentration Requirements	26
Total Credits	119

Course	Title	Credits
Skills Component		
ENG 101	Rhetoric & Writing I (GT-CO1)	3
ENG 102	Rhetoric & Writing II (GT-CO2)	3
Knowledge Component		
CID 103	Speaking & Listening	3
General Education: History		3
General Education: Humanities		6
Social Sciences (6 hours listed under Business) ¹		
Math and Sciences		
MATH 120	College Algebra (GT-MA1)	3
MATH 156	Introduction to Statistics (GT-MA1)	3
PHYS 201 & 201L	Principles of Physics I (GT-SC2) and Principles of Physics Lab I (GT-SC1)	4
Select one of the following:		4
CHEM 111 & 111L	Principles of Chemistry (GT-SC2) and Principles of Chemistry Lab (GT-SC1)	4
GEOL 101 & 101L	Earth Science (GT-SC2) and Earth Science Lab (GT-SC1)	4
Business and Management		
ACCT 201	Principles of Financial Accounting	3
BSAD 270	Business Communications	3
BSAD 302	Ethics in Business	3
ECON 201	Principles of Macroeconomics (GT-SS1)	3
ECON 202	Principles of Microeconomics (GT-SS1) ¹	3
MGMT 201	Principles of Management	3
Introduction to Computers		
CIS 100	Introduction to Word	1
CIS 103	Introduction to PowerPoint	1
CIS 104	Introduction to Excel Spreadsheets	1
Major Courses		
CET 102	Surveying I	3
CET 115	Civil Drafting I	3
CET 207	Construction Materials and Methods	3
CET 208	Concrete and Asphalt Materials	3
CET 303	Construction Management	3
CET 304	Building Cost Estimating	3

CET 305	Heavy/Highway Cost Estimating	3
CM 101	Intro to Construction Management	2
CM 231	Statics and Structures	4
CM 320	Soils in Construction	3
CM 330	Wood Structural Systems	3
CM 341	Concrete and Steel Structures	4
CM 351	Construction Planning & Scheduling	3
CM 437	LEED Lab	3
CM 445	Construction Safety	2
CM 451	Mechanical & Electrical Systems	4
CM 461	Construction Law	3
CM 465	Construction Accounting & Finance	3
CM 475	Senior Project	3
Technical and Management Electives		
Select 6 credits from ACCT, BSAD, CET, CM, EN, FIN, MGMT or MKTG		6
Upper Division Technical and Management Electives		
Select 3 credits from ACCT, BSAD, CET, CM, EN, FIN, MGMT or MKTG		3
Total Credits		120

¹ ECON 201 Principles of Macroeconomics (GT-SS1) (3 c.h.) and ECON 202 Principles of Microeconomics (GT-SS1) (3 c.h.) are also counting for the Social Science General Education Requirement.

Specific Graduation Requirements

- Students are required to complete an approved program of study with a cumulative GPA of 2.000 or better in the CM major courses.
- Construction management majors are expected to demonstrate the ability to solve problems pertinent to the construction industry by completing a senior-year capstone activity that requires a packaged submittal and an oral presentation.

Planning Sheet

Disclaimer: The Planning Sheet is designed as a guide for student's planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of an academic advisor. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered the institution.

Course	Title	Credits
Year 1		
Fall		
CM 101	Intro to Construction Management	2
CET 102	Surveying I	3
CET 115	Civil Drafting I	3
ENG 101	Rhetoric & Writing I (GT-CO1)	3
MATH 120	College Algebra (GT-MA1) Prereq: MATH 101	3
Credits		14
Spring		
ENG 102	Rhetoric & Writing II (GT-CO2) Prereq: ENG 101	3
CID 103	Speaking & Listening	3
PHYS 201	Principles of Physics I (GT-SC2)	3
PHYS 201L	Principles of Physics Lab I (GT-SC1)	1
CIS 100	Introduction to Word	1
CIS 103	Introduction to PowerPoint	1

CIS 104	Introduction to Excel Spreadsheets	1
General Education: Humanities		3
Credits		16
Year 2		
Fall		
CM 231	Statics and Structures Prereq: PHYS 201 and PHYS 201L	4
CET 207	Construction Materials and Methods	3
MATH 156	Introduction to Statistics (GT-MA1) Prereq: MATH 101	3
MGMT 201	Principles of Management (History - General Education Course)	3
General Education: History		3
Credits		16
Spring		
ACCT 201	Principles of Financial Accounting Prereq: MATH 101 or MATH 109 or MATH 156 or BSAD 265	3
CET 208	Concrete and Asphalt Materials	3
CET 303	Construction Management Prereq: CET 207	3
CM 320	Soils in Construction Prereq: CM 231	3
CHEM 111	Principles of Chemistry (GT-SC2) (OR GEOL 101) Prereq: MATH 101	3
CHEM 111L	Principles of Chemistry Lab (GT-SC1) (GEOL 101/L)	1
Credits		16
Year 3		
Fall		
CM 330	Wood Structural Systems Prereq: CM 231	3
CET 305	Heavy/Highway Cost Estimating	3
BSAD 270	Business Communications Prereq: ENG 101 and ENG 102	3
ECON 201	Principles of Macroeconomics (GT-SS1)	3
Credits		12
Spring		
ECON 202	Principles of Microeconomics (GT-SS1)	3
CET 304	Building Cost Estimating Prereq: CET 303	3
CM 341	Concrete and Steel Structures Prereq: CM 231	4
CM 351	Construction Planning & Scheduling Prereq: CET 303	3
General Education: Humanities		3
Credits		16
Year 4		
Fall		
BSAD 302	Ethics in Business Prereq: BSAD 207	3
CM 437	LEED Lab Prereq: CET 303	3
CM 451	Mechanical & Electrical Systems Prereq: CET 207 and PHYS 201 and PHYS 201L	4
CM 461	Construction Law Prereq: CET 303	3
Technical Elective	Must be upper division course.	3
Credits		16
Spring		
CM 445	Construction Safety Prereq: CET 207	2
CM 465	Construction Accounting & Finance Prereq: ACCT 201	3
CM 475	Senior Project Must be in senior standing. Must be within two semester of graduation.	3
Technical Elective		6
Credits		14
Total Credits		120