



**2013-2014 PETITION/PROGRAM SHEET**  
**Degree: Bachelor of Science**  
**Major: Construction Management**

About This Major . . .

Construction managers plan, direct, and coordinate a wide variety of construction projects, including the building of all types of residential, commercial and industrial structures, roads, and bridges. They are salaried or self-employed managers who oversee construction supervisors and workers. Construction managers coordinate and supervise the construction process from the conceptual development stage through final construction, insuring the project is completed on time and within budget. They are also responsible for the safety of the work environment. Graduates of the Construction Management program will possess an OSHA 10-hour safety card upon graduation.

Potential majors must be comfortable with mathematics, technical instruction, physical science, computers, and software programs. They should work well under pressure and have good oral and written communication skills. They are managers of processes and people and must excel in both technical and human interaction skills.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/career/whatmajor.html>.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
2. Produce professional business work products, independently and working as a team. (Applied Learning)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing. (Communication Fluency)
4. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies.(Specialized Knowledge)
5. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions.(Quantitative Fluency)
6. Properly and appropriately use information systems tools and techniques within functional business areas. (Applied Learning)
7. Identify, formulate, and solve construction related problems by applying mathematics, science, and business principles. (Specialized Knowledge)

**NAME:** \_\_\_\_\_ **STUDENT ID #** \_\_\_\_\_

**LOCAL ADDRESS AND PHONE NUMBER:** \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

I, (Signature) \_\_\_\_\_, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

\_\_\_\_\_  
 Signature of Advisor Date \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Signature of Department Head Date \_\_\_\_\_ 20\_\_

\_\_\_\_\_  
 Signature of Registrar Date \_\_\_\_\_ 20\_\_

**Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.**

**Degree Requirements:**

- 120 semester hours total (A minimum of 28 taken at CMU)
- 40 upper division credits (A minimum of 15 taken within the major at CMU)
- 2.00 cumulative GPA or higher in all CMU coursework
- C or higher in coursework toward the major content area
- When filling out the program sheet a course can be used only once.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

**GENERAL EDUCATION REQUIREMENTS** (31 Semester Hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement.

Course No	Title	Sem.hrs	Grade	Term/Trns
<b>English</b> (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)				
ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____

**Math: MATH 113 or higher** (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)

MATH 113		4*	_____	_____
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\*3 credits apply to the General Ed requirements and 1 credit applies to elective credit

**Humanities** (3 semester hours)

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**Social and Behavioral Sciences** (6 semester hours)

ECON 201	Principles of Macroeconomics	3	_____	_____
ECON 202	Principles of Microeconomics	3	_____	_____

**History** (3 semester hours)

HIST \_\_\_\_\_

**Fine Arts** (3 semester hours)

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**Natural Sciences** (7 semester hours, one course must include a lab)

Course No	Title	Sem.hrs	Grade	Term/Trns
PHYS 111	General Physics	4*	_____	_____
PHYS 111L	General Physics Lab	1*	_____	_____
PHYS 112	General Physics	4*	_____	_____
PHYS 112L	General Physics Lab	1*	_____	_____

\*7 credits apply to the General Ed requirements and 3 credits apply to elective credit

**OTHER LOWER DIVISION REQUIREMENTS** (6 semester hours)

**Kinesiology** (3 semester hours)

KINE 100	Health and Wellness	1	_____	_____
KINA 1	_____	1	_____	_____
KINA 1	_____	1	_____	_____

**Applied Studies** (3 semester hours)

SPCH 102	Speechmaking	3	_____	_____
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**\*FOUNDATION COURSES** (24 semester hours)

ACCT 201	Prin. of Financial Accounting	3	_____	_____
STAT 200	Probability and Statistics	3	_____	_____
MATH 141	Analytical Geometry	3	_____	_____
CONC 101	Construction Safety and Regs.	3	_____	_____
CONC 116	Building Materials	3	_____	_____
CONC 161	Building Mechanical and Electrical	3	_____	_____
CONC 208	Construction Equipment	3	_____	_____
CONC 218	Surveying	3	_____	_____

**\*CONSTRUCTION MANAGEMENT MAJOR REQUIREMENTS**

(45 semester hours)

**Required Core** (12 semester hours)

BUGB 349	Legal Environment of Business	3	_____	_____
**FINA 301	Managerial Finance	3	_____	_____
MANG 371	Human Resource Management	3	_____	_____
CONM 264	Mech. and Indust. Systems	3	_____	_____

**Required Concentration Courses** (33 semester hours)

CONM 181	Principles of Const. Management	3	_____	_____
CONM 316	Construction Materials and Methods	3	_____	_____
CONM 340	Advanced Construction Estimating/Bidding	3	_____	_____
CONM 361	Advanced Building Systems	3	_____	_____
CONM 362	Structural Analysis-Statics/ Materials Strength	3	_____	_____
CONM 370	Managing Safety and the Regulatory Environment	3	_____	_____
CONM 401	Construction Financial Management	3	_____	_____
CONM 462	Soil and Foundation Construction	3	_____	_____
CONM 472	Planning and Scheduling	3	_____	_____
CONM 480	Project Management (Capstone)	3	_____	_____
CONM 485	Construction Management Issues	3	_____	_____

\*\*STAT 200 or CISB 241 will be accepted as the prerequisite.

Course No	Title	Sem.hrs	Grade	Term/Trns
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**Electives** (All college level courses appearing on your final transcript, **not listed above** that will bring your total semester hours to 120 hours.) (14 semester hours; **1 hour must be 300 or 400 level**)

Course No	Title	Sem.hrs	Grade	Term/Trns
*MATH 113	College Algebra	1	_____	_____
*PHYS 112	General Physics	2	_____	_____
*PHYS 112L	General Physics Lab	1	_____	_____

Course No Title	Sem.hrs	Grade	Term/Trns	§CONM 499 Internship in Construction Management	3	_____
§CADT 106 Computer Aided Design	3	_____	_____	§Strongly Recommended.		
§CONC 270 Practical Applications	4	_____	_____			

## SUGGESTED COURSE SEQUENCING FOR A MAJOR IN CONSTRUCTION MANAGEMENT

### FRESHMAN YEAR

Fall Semester	Hours	Spring Semester	Hours
General Education Humanities	3	Humanities or Social/Behavioral Sciences	3
ENGL 111 English Composition	3	ENGL 112 English Composition	3
CONC 101 Construction Safety and Regulations	3	CONC 161 Building Mechanical/Electrical	3
MATH 113 College Algebra	4	CONM 181 Principles of Const. Management	3
CONC 116 Building Materials	<u>3</u>	Elective (suggest CADT 106)	<u>3</u>
	16		15

### SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
ECON 201 Principles of Macroeconomics	3	ECON 202 Principles of Microeconomics	3
ACCT 201 Principles of Financial Accounting	3	MATH 141 Analytical Geometry	3
CONC 208 Construction Equipment	3	CONC 218 Surveying	3
PHYS 111 General Physics	4	PHYS 112 General Physics	4
PHYS 111L General Physics Lab	1	PHYS 112L General Physics Lab	1
KINE 100 Health and Wellness	1	CONM 264 Mechanical & Industrial Systems	<u>3</u>
KINA Activity	<u>1</u>		17
	16		

### JUNIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
General Education History	3	SPCH 102 Speechmaking	3
MANG 371 Human Resource Management	3	FINA 301 Managerial Finance	3
CONM 362 Structure Analysis	3	CONM 361 Advanced Building Systems	3
CONM 340 Construction Estimating	3	CONM 370 Managing Safety and the Regulatory Environment	3
CONM 316 Construction Materials/Methods	3	BUGB 349 Legal Environment of Business	<u>3</u>
KINA activity	<u>1</u>		15
	16		

### SENIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
General Education Fine Arts	3	CONM 462 Soil Foundation Construction	3
CONM 401 Construction Financial Management	3	CONM 480 Project Management	3
CONM 472 Planning and Scheduling	3	CONM 499 Internship	3
CONM 485 Construction Management Issues	3	Elective	<u>3</u>
Elective	<u>1</u>		12
	13		

#### POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the Catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature.
5. Finally, the Department Head or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you will be required to take a Major Field Achievement Test (exit exam).