



2016-2017 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

DEGREE REQUIREMENTS:

- 120 semester hours total (Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher).
- 40 upper division credits (A minimum of 15 taken at the 300-400 course levels 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.
- Essential Learning Capstone should be completed between 45 and 75 hours.
- See the "Requirements for Undergraduate Degrees and Certificates" in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Course No	Title	Sem.hrs	Grade	Term	Trns
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English (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 Essential Learning requirements and 1 credit applies to elective credit

Humanities (3 semester hours)

Social and Behavioral Sciences (6 semester hours)

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

History (3 semester hours)

HIST					
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Fine Arts (3 semester hours)

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

PHYS 111	General Physics	4*			
PHYS 111L	General Physics Lab	1*			
		3*			

*7 credits apply to the Essential Learning requirements and 1 credits apply to elective credit

Course No	Title	Sem.hrs	Grade	Term	Trns
WELLNESS REQUIREMENT (2 semester hours)					
KINE 100	Health and Wellness	1			
KINA 1		1			

ESSENTIAL LEARNING CAPSTONE (4 semester hours)

ESSL 290	Maverick Milestone (see English & math pre-reqs)	3			
ESSL 200	Essential Speech (co-requisite)	1			

FOUNDATION COURSES (27 semester hours)

ACCT 201	Prin. of Financial Accounting	3			
STAT 200	Probability and Statistics	3			
MATH 130	Trigonometry	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			
CONC 228	Estimating and Cost Control	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			
HRMA 371	Human Resource Management	3			
CONM 234	Graphic Communications for Construction Management	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 and Bidding	3			
CONM 361	Advanced MEP Systems	3			
CONM 362	Structural Analysis-Statics/ Materials Strength	3			
CONM 370	Managing Safety and the Regulatory Environment	3			
CONM 380	Construction Project Management	3			
CONM 462	Soil and Foundation Construction	3			
CONM 472	Planning and Scheduling	3			
CONM 475	Construction Company and Financial Management	3			

Take One of the Following Courses

CONM 485	Construction Management Issues	3			
CONM 495	Construction Independent Study				
CONM 499	Construction Internship				

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

Electives (All college level courses appearing on your final transcript, **not listed above** that will bring your total semester hours to 120 hours.) (11 semester hours; **1 hour must be 300 or 400 level**)

Course No	Title	Sem.hrs	Grade	Term	Trns
*MATH 113	College Algebra	1			
*Natural Science		1			

Course No	Title	Sem.hrs	Grade	Term	Trns

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN CONSTRUCTION MANAGEMENT

FRESHMAN YEAR

Fall Semester	Hours	Spring Semester	Hours
ENGL 111	English Composition	Essential Learning	Humanities
CONC 101	Construction Safety and Regulations	ENGL 112	English Composition
MATH 113	College Algebra	CONC 161	Building Mechanical/Electrical
CONC 116	Building Materials	CONM 208	Construction Equipment
CONM 181	Principles of Const. Management	KINE 100	Health and Wellness
	<u>3</u>	KINA 1XX	Activity
	16		<u>1</u>
			14

SOPHOMORE YEAR

Fall Semester	Hours	Spring Semester	Hours
ECON 201	Principles of Macroeconomics	ECON 202	Principles of Microeconomics
ACCT 201	Principles of Financial Accounting	MATH 130	Trigonometry
CONC 234	Graphic Communications for Construction Management	CONC 218	Surveying
CONC 228	Estimating and Cost Control	Essential Learning	Natural Science
PHYS 111	General Physics	_____	Elective
PHYS 111L	General Physics Lab		<u>3</u>
	<u>1</u>		15
	17		

JUNIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
CONM 362	Structure Analysis	HRMA 371	Human Resource Management
CONM 340	Construction Estimating	STAT 200	Probability and Statistics-GTMA1
CONM 316	Construction Materials/Methods	CONM 361	Advanced MEP Systems
CONM 370	Managing Safety and the Regulatory Environment	CONM 380	Construction Project Management
ESSL 290	Maverick Milestone	BUGB 349	Legal Environment of Business
ESSL 200	Essential Speech		<u>3</u>
	<u>1</u>		15
	16	Summer Semester	Hours
		CONM 499 Internship	3*

SENIOR YEAR

Fall Semester	Hours	Spring Semester	Hours
Essential Learning	Fine Arts	CONM 462	Soil Foundation Construction
Essential Learning	History	CONM 475	Construction Business and Financial Management
CONM 472	Planning and Scheduling	CONM 485	Construction Management Issues
FINA 301	Managerial Finance	OR CONM 495	Construction Independent Study
_____	Elective	_____	Upper Level Elective
	<u>3</u>		<u>3</u>
	15		12

*If student opts to take CONM 499 Construction Internship.
The internship should be planned between Junior and Senior years.

POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. 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.** 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. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. 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.

NOTE: During your senior year, you will be required to take a capstone exit assessment/project (e.g., Major Field Achievement Test).