



2008 – 09 PETITION/PROGRAM SHEET
Degree: Bachelor of Science
Major: Construction Management
www.mesastate.edu/schools/sbps/busadm/mang.htm

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. At the end of the day, however, they are managers of processes and people and must excel in both technical and human interaction skills.

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC 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).

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 MSC)
- 40 upper division credits (A minimum of 15 taken within the major at MSC)
- 2.00 cumulative GPA or higher in all MSC coursework
- 2.00 cumulative GPA or higher in coursework toward the major content area
- When filling out the program sheet a course can be used only once.
- Excess KINA courses beyond the two required and pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information.

GENERAL EDUCATION REQUIREMENTS (31 Semester Hours)

See the current Mesa State College 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 |
|-----------|-------|---------|-------|-----------|
|-----------|-------|---------|-------|-----------|

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 | _____ | _____ |
|----------|---------------------|---|-------|-------|

(ENGL 129, Honors English, may be substituted for ENGL 111 & ENGL 112.)

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* | _____ | _____ |
|----------|-------|----|-------|-------|

*3 credits apply to the General Ed 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 | _____ | _____ |
|----------|------------------------------|---|-------|-------|

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

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|----------|-----------------|----|-------|-------|
| 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 applies to elective credit

History (3 semester hours)

| | | | | |
|------|-------|-------|-------|-------|
| HIST | _____ | _____ | _____ | _____ |
|------|-------|-------|-------|-------|

Fine Arts (3 semester hours)

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|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|-------|

| Course No | Title | Sem.hrs | Grade | Term/Trns |
|-----------|-------|---------|-------|-----------|
|-----------|-------|---------|-------|-----------|

OTHER LOWER DIVISION REQUIREMENTS

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 | _____ | _____ |
|----------|--------------|---|-------|-------|

BACHELOR OF SCIENCE DEGREE DISTINCTION

REQUIREMENTS (6 semester hours) Must receive a grade of "C" or better

| | | | | |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|-------|

(3 semester hours higher than MATH 113)

Humanities or Social/Behavioral Sciences (3 semester hours)

| | | | | |
|-------|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ | _____ |
|-------|-------|-------|-------|-------|

CONSTRUCTION MANAGEMENT MAJOR REQUIREMENTS

(60 semester hours required fro ACCE Accreditation)

Required Core (49 semester hours)

| | | | | |
|----------|-------------------------|--|--|--|
| ACCT 201 | Principles of Financial | | | |
|----------|-------------------------|--|--|--|

| | | | |
|------------|---|-------|-------|
| Accounting | 3 | _____ | _____ |
|------------|---|-------|-------|

| | | | | |
|----------|-------------------------------|---|-------|-------|
| BUGB 349 | Legal Environment of Business | 3 | _____ | _____ |
|----------|-------------------------------|---|-------|-------|

| | | | | |
|-----------|--------------------|---|-------|-------|
| *FINA 301 | Managerial Finance | 3 | _____ | _____ |
|-----------|--------------------|---|-------|-------|

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|----------|--------------------------|---|-------|-------|
| MANG 201 | Principles of Management | 3 | _____ | _____ |
|----------|--------------------------|---|-------|-------|

| | | | | |
|----------|---------------------------|---|-------|-------|
| MANG 371 | Human Resource Management | 3 | _____ | _____ |
|----------|---------------------------|---|-------|-------|

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|----------|-------------------------|--|--|--|
| CONC 101 | Construction Safety and | | | |
|----------|-------------------------|--|--|--|

| | | | |
|-------------|---|-------|-------|
| Regulations | 3 | _____ | _____ |
|-------------|---|-------|-------|

| | | | | |
|----------|--------------------|---|-------|-------|
| CONC 116 | Building Materials | 3 | _____ | _____ |
|----------|--------------------|---|-------|-------|

| | | | | |
|----------|-------------------------|--|--|--|
| CONC 161 | Building Mechanical and | | | |
|----------|-------------------------|--|--|--|

| | | | |
|------------|---|-------|-------|
| Electrical | 3 | _____ | _____ |
|------------|---|-------|-------|

| | | | | |
|----------|------------------------|---|-------|-------|
| CONC 208 | Construction Equipment | 3 | _____ | _____ |
|----------|------------------------|---|-------|-------|

| | | | | |
|----------|-----------|---|-------|-------|
| CONC 218 | Surveying | 3 | _____ | _____ |
|----------|-----------|---|-------|-------|

| | | | | |
|----------|--------------------------|--|--|--|
| CONC 251 | Construction Preparation | | | |
|----------|--------------------------|--|--|--|

| | | | |
|------------------------|---|-------|-------|
| (Codes, Permits, etc.) | 3 | _____ | _____ |
|------------------------|---|-------|-------|

*STAT 200 will be accepted as the prerequisite.

Required Concentration Courses (27 semester hours)

| | | | | |
|----------|------------------------|--|--|--|
| 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 | _____ | _____ |
|--------------------|---|-------|-------|

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|----------|---------------------|--|--|--|
| CONM 370 | Managing Safety and | | | |
|----------|---------------------|--|--|--|

| | | | |
|------------------------|--|--|--|
| Regulatory Environment | | | |
|------------------------|--|--|--|

| | | | | |
|----------|------------------------|--|--|--|
| CONM 401 | Construction Financial | | | |
|----------|------------------------|--|--|--|

| | | | |
|------------|---|-------|-------|
| Management | 3 | _____ | _____ |
|------------|---|-------|-------|

| | | | | |
|----------|---------------------|--|--|--|
| CONM 462 | Soil and Foundation | | | |
|----------|---------------------|--|--|--|

| | | | |
|--------------|---|-------|-------|
| Construction | 3 | _____ | _____ |
|--------------|---|-------|-------|

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|----------|-------------------------|---|-------|-------|
| CONM 472 | Planning and Scheduling | 3 | _____ | _____ |
|----------|-------------------------|---|-------|-------|

| | | | | |
|----------|-------------------------------|---|-------|-------|
| CONM 480 | Project Management (Capstone) | 3 | _____ | _____ |
|----------|-------------------------------|---|-------|-------|

Electives (All college level courses appearing on your final transcript, **not listed above** that will bring your total semester hours to 120 hours.)
17 semester hours; 4 hours must be 300 or 400 level)

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

| | | | | |
|-----------|---------------------------------------|---|-------|-------|
| *STAT 200 | Probability and Statistics | 3 | _____ | _____ |
| *CADT 106 | Computer Aided Design | 3 | _____ | _____ |
| *CONC 270 | Practical Applications | 4 | _____ | _____ |
| *CONM 499 | Internship in Construction Management | 3 | _____ | _____ |

*Strongly Recommended

SUGGESTED COURSE SEQUENCING FOR A MAJOR IN CONSTRUCTION MANAGEMENT

FRESHMAN YEAR

| Fall Semester | | Hours | Spring Semester | | Hours |
|------------------------------|-------------------------------------|----------|-----------------|--------------------------------|----------|
| ENGL 111 | English Composition | 3 | ENGL 112 | English Composition | 3 |
| CONC 101 | Construction Safety and Regulations | 3 | CONC 218 | Surveying | 3 |
| MATH 113 | College Algebra | 4 | CONC 161 | Building Mechanical/Electrical | 3 |
| CONC 116 | Building Materials | 3 | PHYS 111 | General Physics 4 | 4 |
| General Education Humanities | | <u>3</u> | PHYS 111L | General Physics Lab | 1 |
| | | 16 | KINA Activity | | 1 |
| | | | KINE 100 | Health and Wellness | <u>1</u> |
| | | | | | 16 |

SOPHOMORE YEAR

| Fall Semester | | Hours | Spring Semester | | Hours |
|---|------------------------------------|----------|-----------------------------|------------------------------|----------|
| ACCT 201 | Principles of Financial Accounting | 3 | MATH above MATH 113 | | 3 |
| ECON 201 | Principles of Macroeconomics | 3 | ECON 202 | Principles of Microeconomics | 3 |
| CONC 208 | Construction Equipment | 3 | PHYS 112 | General Physics | 4 |
| MANG 201 | Principles of Management | 3 | PHYS 112L | General Physics Lab | 1 |
| Humanities or Social/Behavioral Sciences | | <u>3</u> | Elective (suggest CADT 106) | | 3 |
| | | 15 | CONC 251 | Construction Preparation | <u>3</u> |
| | | | | | 17 |

JUNIOR YEAR

| Fall Semester | | Hours | Spring Semester | | Hours |
|----------------|--------------------------------|----------|--------------------|---------------------------|----------|
| Elective | | 3 | CONM 340 | Construction Estimating | 3 |
| MANG 371 | Human Resource Management | 3 | FINA 301 | Managerial Finance | 3 |
| Gen. Education | History | 3 | CONM 361 | Advanced Building Systems | 3 |
| CONM 316 | Construction Materials/Methods | <u>3</u> | CONM 362 | Structure Analysis | 3 |
| | | 12 | KINA activity | | 1 |
| | | | Gen. Ed. Fine Arts | | <u>3</u> |
| | | | | | 16 |

SENIOR YEAR

| Fall Semester | | Hours | Spring Semester | | Hours |
|---------------|----------------------------------|----------|-----------------|-------------------------|----------|
| BUGB 349 | Legal Environment of Business | 3 | CONM 472 | Planning and Scheduling | 3 |
| SPCH 102 | Speechmaking | 3 | CONM 480 | Project Management | 3 |
| Elective | | 1 | Elective | | 3 |
| CONM 370 | Managing Safety/Reg. Environment | 3 | CONM 499 | Internship | <u>3</u> |
| CONM 401 | Cons. Fin. Mgt. | 3 | | | 12 |
| CONM 462 | Soil Foundation Construction | <u>3</u> | | | |
| | | 16 | | | |