

# BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT



## EVERYTHING HELPS GROW YOUR SUCCESS

The Construction Management program will prepare you to meet the challenges of becoming competent superintendents and project managers in the residential, commercial, and industrial arenas.

This well-rounded degree can prepare you for jobs such as:

- Construction Business Development
- Constructing
- Construction Supervision
- Cost Estimating
- Field Engineering
- Project Management
- Project Engineering
- Project Scheduling
- Quality Assurance Management
- Safety Management
- Virtual Project Designing
- And many more...

### TECHNOLOGY-DRIVEN CURRICULUM

Your coursework will incorporate the latest available software applications, animations, simulations, building information modeling, and virtual reality methods. With these tools, you can learn to effectively plan projects, communicate to stakeholders, and analyze project performance.

- + **STRONG JOB OUTLOOK**
- + **DEDICATED AND HIGH QUALITY FACULTY**
- + **HANDS-ON PRACTICAL LEARNING**

### VALUE-ADDED LEARNING

You will learn to maximize the value of a design by understanding life-cycle costing techniques, sensor networks, and intelligent building design.

### BUSINESS EMPHASIS

Principles of accounting, finance, risk minimization, and employee protection are emphasized so that you will develop the best overall construction techniques for the project.

### EXPERTISE

You will learn from instructors experienced in the construction field, lending practicality to your training. Small class sizes ensures your instructors will get to know you personally. Through a combination of interactive lectures, graphic exercises, demonstration classes, and field exercises, you will build valuable working knowledge, enabling you to communicate with engineering subject experts as you develop your craft.

### JOHN CABAGE, PhD

CMG PROGRAM COORDINATOR

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# BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT

## TOTAL MAJOR COURSEWORK: 121-122 HRS

### CORE COURSEWORK: 57 HRS

**CMG 1000** Intro to Construction Management  
**EGT 1303** Engineering Technology Applications  
**EGT 1323** Computers for Engineering Technology  
**EGT 2004G** Materials Science & Evaluation  
**CMG 2013** Soil, Concrete, & Paving Testing  
**EGT 2043** Computer-Aided Engineering Drawing  
**CMG 2223** Print Reading & Intro to Building Info Management  
**CMG 2253** Construction Equipment & Materials  
**EGT 2773** Safety for Engineering Technology Professionals  
**CMG 2953** Statics and Strength of Materials  
**CMG 3023** Formwork & Building Processes  
**CMG 3213** Surveying & Site Planning  
**EGT 3414** Engineering Technology Project Management  
**CMG 3603** Mech Systems in Residential & Commercial Buildings  
**CMG 3833** Sustainable Buildings  
**CMG 4023** Construction Risk Management  
**CMG 4223** Construction Cost Estimating & Takeoffs  
**CMG 4243** Construction Project Management Capstone  
**EGT 4843** Statistical Quality & Reliability

### COMMUNICATIONS: 3 HRS

**CMN 3030** Promotional Communication

### ECONOMICS: 6 HRS

**ECN 2801G** Principles of Macroeconomics  
**ECN 2802G** Principles of Microeconomics

### MATHEMATICS: 4 HRS

**MAT 2250G** Elementary Statistics

### PHYSICAL SCIENCE: 4 HRS

**GEO 1300G** Introduction to Earth Sciences (Preferred)  
**OR PHY 1151G & PHY 1152G** Principles of Physics I & lab  
**OR CHM 1310G & CHM 1315G** General Chemistry I & lab

### BUSINESS: 12 HRS

**BUS 2101** Financial Accounting  
**BUS 2750** Legal and Social Environment of Business  
**BUS 3010** Management and Organizational Behavior  
**OR ODL 4835** Supervision in Organizations  
**BUS 3070** Survey of Finance

### MAJOR ELECTIVES: 9-10 HRS

Three electives must be taken as part of the program. At least one course must have the CMG prefix from the list below. If selected properly, additional electives can result in a Business Administration Minor.

#### CONSTRUCTION MANAGEMENT ELECTIVES:

**CMG 4013** Virtual Project Design  
**CMG 4033** Heavy Construction Planning  
**CMG 4413** Advanced Construction Safety  
**CMG 4913** 30 Hour OSHA Certification for Construction  
**EGT 2324** Electricity & Electronic Controls  
**EGT 4503** Engineering Technology Cost Analysis  
**OSC 4810** Supply Chain & Logistics Management

#### BUSINESS ADMINISTRATION MINOR:

Two of the following:

**BUS 2102** Managerial Accounting  
**BUS 3050** Survey of Management Information Systems  
**BUS 3100** Survey of Marketing Principles  
**ENT 3300** Foundations of Entrepreneurship  
**FIN 3720** Investments  
**FIN 3740** Real Estate Fundamentals

## 100% JOB PLACEMENT AFTER GRADUATION

### SUGGESTED 4-YEAR SEQUENCE

#### TECHNOLOGY EMPHASIS

• The following courses may be taken as technical electives:  
 CMG 4013, EGT 2324, EGT 4503, CMG 4033, CMG 4413,  
 OSC 4810, CMG 4913

FALL	YEAR 1		SPRING
CMG 1000	1	Fine Arts	3
CMG 2253	3	EGT 2043	3
EGT 1303	3	EGT 2004G	4
EGT 1323	3	GEO 1300G	4
ENG 1001G	3	ENG 1002G	3
CMN 1310G	3		
Total	16	Total	17
FALL	YEAR 2		SPRING
BUS 2101	3	BUS 2750	3
EGT 2773	3	CMG 4223	3
CMG 2953	3	CMG 2013	3
CMG 2223	3	ECN 2802G	3
ECN 2801G	3	BIO 2002G	3
Total	15	Total	15
FALL	YEAR 3		SPRING
CMG 3213	3	CMN 3030	3
CMG 3603	3	CMG 3023	3
MAT 2250G	4	CMG Elective	3
EGT 3414	4	EGT 4843	3
Humanities	3	CMG 3833	3
Total	17	Total	15
FALL	YEAR 4		SPRING
CMG Elective	3	CMG 4023	3
ODL 4835 OR BUS 3010	3	CMG Elective	3
BUS 3070	3	CMG 4243	3
Soc/Beh Science	3	Humanities/Fine Arts	3
EIU 4XXXX	3		
Total	15	Total	12

#### BUSINESS EMPHASIS

• The following courses may be taken as technical electives:  
 BUS 2102, ENT 3300, FIN 3720, FIN 3740, FIN 3770,  
 BUS 3050

FALL	YEAR 1		SPRING
BUS 1950	3	Fine Arts	3
CMG 1000	1	EGT 2043	3
CMG 2253	3	EGT 2004G	4
EGT 1303	3	GEO 1300G	4
ENG 1001G	3	ENG 1002G	3
CMN 1310G	3		
Total	16	Total	17
FALL	YEAR 2		SPRING
BUS 2101	3	BUS 2750	3
EGT 2773	3	CMG 4223	3
CMG 2953	3	CMG 2013	3
CMG 2223	3	ECN 2802G	3
ECN 2801G	3	BIO 2002G	3
Total	15	Total	15
FALL	YEAR 3		SPRING
CMG 3213	3	CMN 3030	3
CMG 3603	3	CMG 3023	3
MAT 2250G	4	BUS 3100	3
EGT 3414	4	EGT 4843	3
Humanities	3	CMG 3833	3
Total	17	Total	15
FALL	YEAR 4		SPRING
Business Elective	3	CMG 4023	3
BUS 3010	3	CMG Elective	3
BUS 3070	3	CMG 4243	3
Soc/Beh Science	3	Business Elective	3
EIU 4XXXX	3	Humanities/Fine Arts	3
Total	15	Total	15

• The four-year sequence assumes high school foreign language requirements have been met.  
 • Consult Catalog for specific course prerequisites.

