

# 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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[eiu.edu/construction-management](https://eiu.edu/construction-management)

BACHELOR OF SCIENCE IN

CONSTRUCTION MANAGEMENT

TOTAL MAJOR COURSEWORK: 124-125 HRS

CORE COURSEWORK: 36 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: 6 HRS

- MAT 2250G** Elementary Statistics  
**MAT 1330** Analytical Trigonometry

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 2710** Survey of Finance  
**BUS 2750** Legal and Social Environment of Business  
**BUS 3010** Management and Organizational Behavior  
**OR ODL 4835** Supervision in Organizations

MAJOR ELECTIVES: 6-7 HRS

Two electives must be taken as part of the program. These can be in construction management or business, as specified below. If selected properly, three electives can result in a Business Administration Minor as part of the program.

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  
**EGT 4903** 30 hour OSHA Certification for General Industry  
**OSC 4810** Supply Chain & Logistics Management

BUSINESS ADMINISTRATION MINOR:

- Two of the following:  
**BUS 2102** Managerial Accounting  
**ENT 3300** Foundations of Entrepreneurship  
**FIN 3720** Investments  
**FIN 3740** Real Estate Fundamentals  
**FIN 3770** Working Capital Management

97% 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

FALL	YEAR 1		SPRING
CMG 1000	1	MAT 1330	2
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 16
FALL	YEAR 2		SPRING
BUS 2101	3	BUS 2710	3
EGT 2773	3	CMG 2223	3
CMG 2953	3	CMG 2013	3
MAT 2250G	4	ECN 2802G	3
ECN 2801G	3	BIO 2002G	3
Total		16	Total 15
FALL	YEAR 3		SPRING
CMG 3213	3	CMN 3030	3
BUS 2750	3	CMG 3603	3
CMG 3023	3	CMG Elective	3
EGT 3414	4	EGT 4843	3
CMG 4223	3	Fine Arts	3
Total		16	Total 15
FALL	YEAR 4		SPRING
CMG Elective	3	CMG 4023	3
ODL 4835 OR BUS 3010	3	CMG 3833	3
Humanities	3	CMG 4243	3
Soc/Beh Science	3	Humanities/Fine Arts	3
EIU 4XXXXG	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

FALL	YEAR 1		SPRING
BUS 1950	3	MAT 1330	2
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 16
FALL	YEAR 2		SPRING
BUS 2101	3	BUS 2710	3
EGT 2773	3	CMG 2223	3
CMG 2953	3	CMG 2013	3
MAT 2250G	4	ECN 2802G	3
ECN 2801G	3	BIO 2002G	3
Total		16	Total 15
FALL	YEAR 3		SPRING
CMG 3213	3	CMN 3030	3
BUS 2750	3	CMG 3603	3
CMG 3023	3	BUS 3100	3
EGT 3414	4	EGT 4843	3
CMG 4223	3	Fine Arts	3
Total		16	Total 15
FALL	YEAR 4		SPRING
Business Elective	3	CMG 4023	3
BUS 3010	3	CMG 3833	3
Humanities	3	CMG 4243	3
Soc/Beh Science	3	Business Elective	3
EIU 4XXXXG	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.