

CONSTRUCTION MANAGEMENT, AS

Program code: CNMG-AS

Location: Capital

Program Description

Graduates of the program will acquire basic knowledge and skills in sustainable construction, administrative procedures, resource management and construction processes for building. Further, graduates will have the ability to utilize construction documents for quantity take-offs, to participate in construction job-site office meetings and to provide related documentation and correspondence. A graduate will have technical and analysis skills from hands-on consideration of complex projects that will position them for success in many areas within the construction industry. This certificate will prepare students for immediate employment in entry level jobs in the industry. This degree will also prepare students for transfer to baccalaureate degree programs in the field.

Learning Outcomes

In addition to acquiring the general education competencies, upon completion of the program, the graduate will be able to:

1. Interpret and effectively utilize construction and construction-related documents including reference materials, contracts, and specifications.
2. Prepare quantity take-offs using manual mathematical models/ techniques and takeoff software.
3. Estimate construction costs for bidding and assess the appropriateness of various construction methods, materials, and equipment in specific situations.
4. Identify construction equipment and tools and their use in Building Systems and Heavy/Highway Systems.
5. Display the knowledge and skills required in the planning and management of a construction project including use of project software.
6. Identify and resolve problems related to aspects of construction management.
7. Identify Safety and Health Hazards and develop construction Safety Plans.
8. Create a Construction Management Proposal and identify the roles and responsibilities of the Project Team Stakeholders.

Degree Requirements

Code	Title	Credits
General Education Courses		
ENG 1010	Composition	3
MATH 1010 or higher		3-4
COMM 1501	Visual Communication	3
CHEM 1110 or PHYS 1201	Concepts of Chemistry General Physics I	4
Elective HISX - Historical Knowledge Course or Elective SBSX - Social / Behavioral Science Course		3

Elective ORAX - Oral Communication Course or Elective WRIX - Written Communication II Course 3

CCS 1001 College and Career Success 3

Program Courses

ACCT 1130 Principles of Financial Accounting 3

CSA 1110 Introduction to Software Applications 3

CMGT 1110 Construction Graphics/Quantity Take-Off 3

CMGT 1120 Construction Project Administration 3

CMGT 2285 Construction Project Management 3

CMGT 1150 Construction Building Systems 3

CMGT 1160 Heavy/Highway Systems 3

CMGT 2150 Construction Building Estimating 3

CMGT 2160 Heavy/Highway Estimating 3

CMGT 2275 Construction Planning 3

CMGT 2500 Construction Business Principles 3

CMGT 2230 Construction Safety 3

ECON 1002 Principles of Microeconomics 3

Total Credits 61-62