

CONSTRUCTION MANAGEMENT and ARCHITECTURE (AS.CMA)

ASSOCIATE OF SCIENCE

Program Outcomes: Upon successful completion of this program a student will be able to:

Construction Management Emphasis:

- identify and select alternate construction education pathways and construction career opportunities.
- apply basic levels of knowledge and experience in construction craft skills and commercial business operations necessary to effectively manage small commercial and residential construction project activities.
- analyze and apply standard construction contract terms, conditions, plans, specifications, costing formats, and basic regulatory requirements applicable to a range of construction activities.
- apply basic construction management methods to monitor and control compliance with contract requirements for price, time schedule, specifications, and safety on small projects.

Architecture Emphasis:

- identify and select alternate architectural education pathways and architectural career opportunities.
- apply basic principles of commercial and residential construction materials and methods to architectural design.
- apply basic architectural design principles to generate an architectural design solution to a specific set of constraints.
- describe and apply sustainable environmental design principles to architectural design solutions.
- apply manual and digital techniques to produce drawings and three-dimensional models documenting architectural and engineering designs.

Required Major Courses (20 units)

<input type="checkbox"/> CMA-51 – Introduction to Construction Management and Architecture	3.0
<input type="checkbox"/> CMA-55 – Introduction to Structural Design and Codes	3.0
<input type="checkbox"/> CMA-57 – Construction Law and Contracts	3.0
<input type="checkbox"/> CMA-61 – Construction Field Practice: Layout, Foundations & Framing	4.0
<input type="checkbox"/> CMA-62 – Construction Field Practice: Exterior and Interior Finish	4.0
<input type="checkbox"/> CMA-81 – Computer Aided Drafting and Design I	3.0

Required Major Courses (Complete one emphasis 15 units)

<input type="checkbox"/> CONSTRUCTION MANAGEMENT – CMA-52, 53, 54, 56, 91	15.0
<input type="checkbox"/> ARCHITECTURE – CMA-70, 71, 72, 82, 83	15.0

Major Elective Courses (Complete 3 units from the same emphasis as above)

<input type="checkbox"/> CONSTRUCTION MANAGEMENT – CMA-63, 64, 65, 66, 84, 90, EGN-11	3.0
<input type="checkbox"/> ARCHITECTURE – CMA-53, 84, 90, 91, EGN-11	3.0

SUBTOTAL: 38 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

HCCD GE (see page 66) *MAT-123 or higher*

- Natural Sciences Social & Behavioral Sciences Humanities
 Ethnic Groups in the US Language and Rationality

SUBTOTAL: 21 UNITS

Students can double-count required courses and courses for General Education

■ **Electives (Courses Numbered 1-199) required when degree units plus GE units total fewer than 60.**

TOTAL: 60 UNITS