

The Construction Management Fundamentals certificate introduces students to residential and commercial print reading, covering the interpretation and reading of construction prints and related documents as used within the building trades industry. This certificate also covers basic construction estimating. Students will develop skills in estimating the amount and cost of various constructions and will demonstrate these skills by making estimates of materials and labor quantities and the cost of representative types of construction.

Required Courses	Credits	Pre or Co Reqs Rqd	Course Availability		
			Fall	Spr	Sum
<b>General Education Courses</b>					
• ENG 131 - Technical Writing I: GT-CO1* (3 Cr.)	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Major Courses</b>					
• AEC 107 - Print Reading Residential/Commercial* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 116 - Building Materials* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 208 - Building Environmental Systems I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• AEC 216 - Construction Estimating* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• AEC 226 - Construction Scheduling* (3 Cr.)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• AEC 236 - International Building Codes* (3 Cr.)	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
• Restricted Elective (See Notes for specific requirements)	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### Pre-Requisites, Co-Requisites, and Recommendations (grade C or better required)

Where requirements are listed as course categories (e.g. Electives, Arts/Humanities) rather than as specific courses, please note that depending upon course choice, pre-requisites may be required.

ENG 131 - Technical Writing I: GT-CO1\* (3 Cr.)

- Co-Requisite: CCR 094 - Studio 121

AEC 208 - Building Environmental Systems I

- Pre-Requisite: AEC 116 - Building Materials\*
- Pre-Requisite: MAT 121 - College Algebra: GT-MA1\*
- Pre-Requisite: OR Instructor's permission

### Program Outcomes

- Define and differentiate various building materials.
- Locate, explain, and apply building codes.
- Demonstrate the ability to Print Read.
- Estimate building material needs.

### Notes

- \*This course requires college level readiness as measured by Accuplacer, ACT, or SAT scores; approved high school course work that is less than five years old; or successful completion of appropriate college-readiness course.
- Course availability is subject to change.
- Refer To 21/22 catalog for specific requirements and important information about this certificate.
- Restricted Elective: Select one course from the following: AEC 228 - Contracts and the Legal Environment, AEC 280 - Internship: Construction, CAD 224 - REVIT Architecture
- The Construction Management Fundamentals Certificate is your first step on the path to being a construction manager or supervisor. The courses in this program will provide you with the necessary education and skills to enter the construction profession. Refer to the 2021/2022 Catalog for program admission, elective course and graduation requirements; consult the Architecture Department for specific course planning information and guidance and utilize DegreeCheck to monitor progress. To graduate from this program, visit [www.arapahoe.edu/graduation](http://www.arapahoe.edu/graduation) and submit the graduation application by the deadline. This information is subject to change without notice. Information regarding median loan debt, completion and placement rates, occupations and tuition / fees may be found at [www.Arapahoe.edu/gainful](http://www.Arapahoe.edu/gainful).

### Graduation Requirements

- After applying for graduation, all correspondence to a student about the status of their program conferral will be sent to their student email address only.
- As a graduate of a Career and Technical Education program you will be contacted by an ACC employee in approximately six months to verify your employment information.
- This information gathering is a federal requirement to ensure that ACC receives certain federal funding.
- To graduate, students must apply for graduation and complete the graduation survey (available via myACC).

RECOMMENDED COURSE SEQUENCE FULL-TIME TRACK

Year 1: Fall	Credits	Course
	3	AEC 107 - Print Reading Residential/Commercial (3 Cr.)
	3	AEC 116 - Building Materials (3 Cr.)
	3	AEC 216 - Construction Estimating (3 Cr.)
	3	AEC 226 - Construction Scheduling (3 Cr.)
Year 1: Spring	Credits	Course
	3	AEC 208 - Building Environmental Systems I
	3	AEC 236 - International Building Codes (3 Cr.)
	3	ENG 131 - Technical Writing I: GT-CO1 (3 Cr.)
	3	Restricted Elective
		~Choose One Course~
		AEC 228 - Contracts & The Legal Environment* (3 Cr.)
		AEC 280 - Internship (3 Cr.)
		CAD 224 - Revit Architecture (3 Cr.)

RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

Year 1: Fall	Credits	Course
	3	AEC 107 - Print Reading Residential/Commercial (3 Cr.)
	3	AEC 116 - Building Materials (3 Cr.)
	3	ENG 131 - Technical Writing I: GT-CO1 (3 Cr.)
Year 1: Spring	Credits	Course
	3	AEC 208 - Building Environmental Systems I
	3	AEC 236 - International Building Codes (3 Cr.)
	3	Restricted Elective
		~Choose One Course~
		AEC 228 - Contracts & The Legal Environment* (3 Cr.)
		AEC 280 - Internship (3 Cr.)
		CAD 224 - Revit Architecture (3 Cr.)
Year 2: Fall	Credits	Course
	3	AEC 216 - Construction Estimating (3 Cr.)
	3	AEC 226 - Construction Scheduling (3 Cr.)