Academic Plan - Certificate Construction Management Fundamentals

# Catalog Year: 2021/2022

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.

# Total Credits: 24

# General Education Courses

3 Credits, ENG 131 - Technical Writing I: GT-CO1\* (3 Cr.), available fall spring summer

# Major Courses

3 Credits, AEC 107 - Print Reading Residential/Commercial\* (3 Cr.), available fall spring

3 Credits, AEC 116 - Building Materials\* (3 Cr.), available fall spring

3 Credits, AEC 208 - Building Environmental Systems I, available spring

3 Credits, AEC 216 - Construction Estimating\* (3 Cr.), available fall

3 Credits, AEC 226 - Construction Scheduling\* (3 Cr.), available fall

3 Credits, AEC 236 - International Building Codes\* (3 Cr.), available spring

3 Credits, Restricted Elective (See Notes for specific requirements), available fall spring summer

# Pre-Requisites, Co-Requisites, and Recommendations

* 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

# Notes

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 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.

Restricted Elective: Select one course from the following: AEC 228 - Contracts and the Legal Environment, AEC 280 - Internship: Construction, CAD 224 - REVIT Architecture

Course availability is subject to change.

Refer To 21/22 catalog for specific requirements and important information about this certificate.

\*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.

# 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

3 Credits, AEC 107 - Print Reading Residential/Commercial (3 Cr.)

3 Credits, AEC 116 - Building Materials (3 Cr.)

3 Credits, AEC 216 - Construction Estimating (3 Cr.)

3 Credits, AEC 226 - Construction Scheduling (3 Cr.)

## Year 1: Spring

3 Credits, AEC 208 - Building Environmental Systems I

3 Credits, AEC 236 - International Building Codes (3 Cr.)

3 Credits, ENG 131 - Technical Writing I: GT-CO1 (3 Cr.)

3 Credits, Restricted Elective

* ~Choose One Course~
  + AEC 228 - Contracts & The Legal Environment\* (3 Cr.)
  + AEC 280 - Internship
  + CAD 224 - Revit Architecture (3 Cr.)

# RECOMMENDED COURSE SEQUENCE PART-TIME TRACK

## Year 1: Fall

3 Credits, AEC 107 - Print Reading Residential/Commercial (3 Cr.)

3 Credits, AEC 116 - Building Materials (3 Cr.)

3 Credits, ENG 131 - Technical Writing I: GT-CO1 (3 Cr.)

## Year 1: Spring

3 Credits, AEC 208 - Building Environmental Systems I

3 Credits, AEC 236 - International Building Codes (3 Cr.)

3 Credits, Restricted Elective

* ~Choose One Course~
  + AEC 228 - Contracts & The Legal Environment\* (3 Cr.)
  + AEC 280 - Internship
  + CAD 224 - Revit Architecture (3 Cr.)

## Year 2: Fall

3 Credits, AEC 216 - Construction Estimating (3 Cr.)

3 Credits, AEC 226 - Construction Scheduling (3 Cr.)