

# Architectural Engineer/ Construction Management



**PIKES PEAK**  
COMMUNITY  
COLLEGE

## Is the Architectural Engineer/Construction Management profession right for you?

Do you enjoy precision work?

Are you detail oriented?

Are you good at conceptualizing?

Do you have the ability to read and follow detailed instructions?

**PPCC's Architectural Engineer/Construction Management Website:**  
<https://www.ppcc.edu/degrees-certificates/architecture>

## Career Opportunities

The Associate of Applied Science (AAS) Degrees in Architectural Engineer/Construction Management are designed to prepare students for entry-level positions in the Architecture field. A degree in architecture engineer/construction management can lead to the following careers:

- Architectural Technician
- Construction Project Manager
- Urban and City Planner
- Architectural Specification Writer
- Construction Estimator
- Landscape Designer

PPCC offers the Associate of Applied Science (AAS) degree in Architecture with an Architectural Engineer Technician, Construction Management Technician, or Product Representative emphasis.

PPCC also offers the following certificates:

- Architectural Professional
- Basic AEC Drafting
- Construction Professional

Earning potential in the Construction Management Technician field:

- 2019 median annual income nationally: \$95,260
- 2019 median annual income in Colorado: \$93,950
- Projected job openings nationally (2018-2028) are expected to increase by 7% to 10%
- Projected job openings in Colorado (2016-2026) are expected to increase by 23%

Income statistics can be found at:

<https://www.onetonline.org/link/summary/11-9021.00>

# Architectural Engineer/Construction Management

Sample Academic Plan for Full Time Student, (Fall start), with Construction Management Technician Emphasis

<b>Semester 1 (Course &amp; Credit Hours) Total 14 Credits</b>
AEC 104 Architectural Drawing Theory (4)
AEC 107 Print Reading Residential/Commercial (3)
CAD 104 CAD for Architecture (4)
CIS 118 Introduction to PC Applications (3)
<b>Semester 2 (Course &amp; Credit Hours) Total 12 Credits</b>
AEC 102 Residential Construction Drawing (4)
AEC 121 Construction Material & Systems (3)
AEC 122 Construction Practices and Documents (2)
MAT 107 Career Math (3)
<b>Semester 3 (Course &amp; Credit Hours) Total 6 Credits (Summer Only)</b>
AEC 218 Sustainable Building Systems (3)
ENG 131 Technical Writing (3)
<b>Semester 4 (Course &amp; Credit Hours) Total 14 or 15 Credits</b>
AEC 216 Construction Estimating (3)
AEC 233 Construction Safety & Loss Prevention (2) or OSH 126 OSHA 30 Hour Construction Industry Standards (3)
AEC 236 International Building Codes (3)
CAD 224 Revit Architecture (3)
PSY 100 Psychology of Workplace Relationships (3), PSY 101 General Psychology I (3), or SPA 101 Conversational Spanish (3)
<b>Semester 5 (Course &amp; Credit Hours) Total 15 Credits</b>
AEC 226 Construction Scheduling (3)
AEC 232 Construction Project Management (3)
AEC 255 Professional Workplace Skills & Presentation (3)
CAD 227 Advanced Revit Architecture (3)
COM 115 Public Speaking (3) or COM 225 Organizational Communication (3)

Next Step, apply free at: <https://www.ppcc.edu/enroll>

# Course Availability by Semester

## Fall Offerings

Blank = no offering of course

Course Number & Title	Availability
CAD 104 CAD for Architecture	Day
CAD 224 Revit Architecture	Evening
CAD 227 Advanced Revit Architecture	
AEC 102 Residential Construction Drawing	Evening
AEC 104 Architectural Drawing Theory	Day and Evening
AEC 107 Print Reading Residential/Commercial	Day
AEC 121 Construction Material & Systems	
AEC 122 Construction Practices & Documents	
AEC 123 Commercial Construction Drawing	Weekend
AEC 125 History of Architecture	Evening
AEC 216 Construction Estimating	Evening
AEC 218 Sustainable Building Systems	
AEC 225 Architectural Design & Development	
AEC 226 Construction Scheduling	
AEC 232 Construction Project Management	
AEC 233 Construction Safety & Loss Prevention	
AEC 236 International Building Codes	Evening
AEC 255 Professional Workplace Skills & Presentation	
AEC 280 Internship*	TBD

## Spring Offerings

Blank = no offering of course

Course Number & Title	Availability
CAD 104 CAD for Architecture	
CAD 224 Revit Architecture	
CAD 227 Advanced Revit Architecture	Evening
AEC 102 Residential Construction Drawing	Evening
AEC 104 Architectural Drawing Theory	Day
AEC 107 Print Reading Residential/Commercial	Day
AEC 121 Construction Material & Systems	Day
AEC 122 Construction Practices & Documents	Evening
AEC 123 Commercial Construction Drawing	
AEC 125 History of Architecture	
AEC 216 Construction Estimating	
AEC 218 Sustainable Building Systems	
AEC 225 Architectural Design & Development	Evening
AEC 226 Construction Scheduling	Evening
AEC 232 Construction Project Management	Evening
AEC 233 Construction Safety & Loss Prevention	Weekend
AEC 236 International Building Codes	
AEC 255 Professional Workplace Skills & Presentation	Day
AEC 280 Internship*	TBD

**\*Internship schedule is determined by the business hosting the intern**

# Course Availability by Semester

## Summer Offerings

Blank = no offering of course

Course Number & Title	Availability
CAD 104 CAD for Architecture	
CAD 224 Revit Architecture	
CAD 227 Advanced Revit Architecture	
AEC 102 Residential Construction Drawing	
AEC 104 Architectural Drawing Theory	
AEC 107 Print Reading Residential/Commercial	
AEC 121 Construction Material & Systems	
AEC 122 Construction Practices & Documents	
AEC 123 Commercial Construction Drawing	
AEC 125 History of Architecture	
AEC 216 Construction Estimating	
AEC 218 Sustainable Building Systems	Evening
AEC 225 Architectural Design & Development	
AEC 226 Construction Scheduling	
AEC 232 Construction Project Management	
AEC 233 Construction Safety & Loss Prevention	
AEC 236 International Building Codes	
AEC 255 Professional Workplace Skills & Presentation	
AEC 280 Internship*	TBD

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