



Pikes Peak Community College

Division of Communications, Humanities & Technical Studies 502-3200

Architectural Engineer / Construction Management

Associate of Applied Science Degree

Recommended basic skills standards are CCR 092, MAT 050

This program prepares students to be technical assistants in architectural or construction firms or to be building product representatives assisting architects, engineers, contractors, manufacturers, and other professionals connected with the building industry.

All students should schedule appointments with Architectural Engineer / Construction Management program advisors before enrolling in class.

Students may complete deficiencies concurrently with the beginning courses in the program. Students not meeting a course prerequisite must have instructor permission to enroll.

General Education Courses

<input type="checkbox"/> ENG 121	English Composition I: C01	3
or		
<input type="checkbox"/> ENG 131	Technical Writing I	(3)
<input type="checkbox"/> MAT 107	Career Math or higher	3
Nine (9) additional credit hours from list below		<u>9</u>
		15
Select nine (9) credit hours		
<input type="checkbox"/> ART 110	Art Appreciation: AH1	3
<input type="checkbox"/> CIS 118	Introduction to PC Applications	3
or		
<input type="checkbox"/> CSC 105	Computer Literacy	(3)
<input type="checkbox"/> HIS 101	Western Civilization: Antiquity-1650: HI1	3
<input type="checkbox"/> MUS 120	Music Appreciation: AH1	3
<input type="checkbox"/> PSY 100	Psychology of Workplace Relationships	3
or		
<input type="checkbox"/> PSY 101	General Psychology I: SS3	(3)
<input type="checkbox"/> SPA 101	Conversational Spanish I	3

Course requirements for all emphasis areas

<input type="checkbox"/> AEC 101	Basic Architectural Drafting	4
<input type="checkbox"/> AEC 102	Residential Construction Drawing	4
<input type="checkbox"/> AEC 104	Architectural Drawing Theory	4
<input type="checkbox"/> AEC 109	Architectural Building Materials I	2
<input type="checkbox"/> AEC 125	History of Architecture	3
<input type="checkbox"/> AEC 204	Architectural Graphics	3
<input type="checkbox"/> AEC 218	Sustainable Building Systems	3
<input type="checkbox"/> AEC 228	Contracts & the Legal Environment	3
<input type="checkbox"/> AEC 236	International Building Codes	3
<input type="checkbox"/> CAD 101	Computer Aided Drafting I	<u>3</u>
		32

Emphasis Areas

Architectural

Students choosing this option are trained to be paraprofessionals in architectural, engineering, and construction offices with primary skills of architectural drawing and construction assembly technology.

<input type="checkbox"/> AEC 202	Architectural Design & Analysis	4
<input type="checkbox"/> AEC 206	Applied Structure Analysis	3
<input type="checkbox"/> AEC 209	Architectural Building Materials II	3
<input type="checkbox"/> AEC 221	Building Electrical/Mechanical Systems	3
<input type="checkbox"/> AEC 225	Architectural Design & Development	4
<input type="checkbox"/> CAD 224	Revit Architecture	<u>3</u>
		20
Total Hours for Architectural Degree Emphasis		67

Construction

Students choosing this option will primarily work for a construction company in an administrative capacity doing estimating, scheduling, project management, construction assembly technology, and job-site problem solving.

<input type="checkbox"/> AEC 206	Applied Structure Analysis	3
<input type="checkbox"/> AEC 209	Architectural Building Materials II	3
<input type="checkbox"/> AEC 220	Surveying	3
<input type="checkbox"/> AEC 221	Building Electrical/Mechanical Systems	3
<input type="checkbox"/> AEC 222	Estimating & Print Reading	5
<input type="checkbox"/> AEC 226	Construction Scheduling	<u>3</u>
		20

Total Hours for Construction Degree Emphasis

67

Product Representative

Students choosing this business-oriented option will learn basic selling and marketing techniques. Other items covered include estimating, bid submittals, and furnishing technical information to professionals in the building industry.

<input type="checkbox"/> AEC 209	Architectural Building Materials II	3
<input type="checkbox"/> AEC 221	Building Electrical/Mechanical Systems	3
<input type="checkbox"/> AEC 222	Estimating & Print Reading	5
<input type="checkbox"/> BUS 115	Introduction to Business	3
<input type="checkbox"/> BUS 216	Legal Environment of Business	3
<input type="checkbox"/> MAR 111	Principles of Sales	3
<input type="checkbox"/> MAR 216	Principles of Marketing	<u>3</u>
		23

Total Hours for Product Representative Degree Emphasis

70

Certificates

Basic Drafting

<input type="checkbox"/> AEC 101	Basic Architectural Drafting	4
<input type="checkbox"/> AEC 104	Architectural Drawing Theory	<u>4</u>
		8

CAD Professional Upgrade

<input type="checkbox"/> CAD 101	Computer Aided Drafting I	3
<input type="checkbox"/> CAD 224	Revit Architecture	<u>3</u>
		6

Construction Professional Upgrade

<input type="checkbox"/> AEC 220	Surveying	3
<input type="checkbox"/> AEC 222	Estimating & Print Reading	5
<input type="checkbox"/> AEC 226	Construction Scheduling	<u>3</u>
		11

Intermediate Drafting

<input type="checkbox"/> AEC 101	Basic Architectural Drafting	4
<input type="checkbox"/> AEC 102	Residential Construction Drawing	4
<input type="checkbox"/> AEC 104	Architectural Drawing Theory	4
<input type="checkbox"/> CAD 101	Computer Aided Drafting I	<u>3</u>
		15