

ARCHITECTURAL DESIGN AND DRAFTING

pcc.edu/programs/architectural-design/

CAREER AND PROGRAM DESCRIPTION

This two-year Associate of Applied Science degree program helps students develop the design and technical skills needed in the residential and commercial building design industry.

Career possibilities exist for both self-employment and working for hire. Graduates may pursue various design and drafting jobs with residential designers, construction firms, interior designers, engineers, architects, architectural product manufacturers, city, county, state and federal drafting departments and corporate drafting departments.

Students should attend a program group advising session prior to enrollment. See department web page at www.pcc.edu/arch for additional information and a list of group advising session dates.

Consult a program advisor for information on PCC's policy on acceptance of courses taken at other colleges or high schools or the transferability of PCC courses to other colleges.

The Kitchen and Bath Certificate includes course work from the Interior Design program and prepares the student to take the National Kitchen and Bath Association exams to become an Associated Certified Kitchen and/or Bath Designer.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE

Architectural Design and Drafting
Architectural Design and Drafting-Residential Option

LESS THAN ONE-YEAR CERTIFICATE

Kitchen and Bath

Academic Prerequisites

- Students new to the program must take the college's placement exams for math, reading and writing prior to program advising and registration.

Academic Requirements

- Students whose goal is to earn a degree or certificate must complete all ARCH and ID courses with a letter grade of "C" or better except ARCH 280 CE: Arch Design and Drafting which is offered only as Pass/No Pass only.

Non-Academic Prerequisites

- None

Non-Academic Requirements

- None

ASSOCIATE OF APPLIED SCIENCE DEGREE

Architectural Design and Drafting (p. 1)
Architectural Design and Drafting-Residential Option (p. 2)

ARCHITECTURAL DESIGN AND DRAFTING AAS DEGREE

Minimum 91 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

COURSE OF STUDY

The coursework listed below is required. The following is an example of a term-by-term breakdown.

Term	Course	Credits
First Term		
ARCH 110	Introduction to Architectural Drawing	2
ARCH 124	Introduction to Building Systems	3
ARCH 126	Introduction to AutoCAD	3
ARCH 161	Residential Print Reading	2
Second Term		
ARCH 101	Introduction to Residential Design	3
ARCH 121	Structural Systems I	2
ARCH 132	Residential Building Codes	2
ARCH 136	Intermediate AutoCAD	3
ART 215	History of American Residential Architecture	3
Third Term		
ARCH 111	Intro to Residential Construction Documents	3
ARCH 162	Commercial Print Reading	2
ARCH 237	Introduction to Revit Architecture	3
ARCH 256	Detail Drawing with AutoCAD	3
General Education: 1 course		
Fourth Term		
ARCH 112	Intro to Commercial Construction Documents	4
ARCH 113	Site Planning	2
ARCH 122	Structural Systems 2	3
ARCH 133	Commercial Building Codes	2
ARCH 210	Professional Practices for Architectural Design & Drafting	3
General Education: 1 course		
Fifth Term		
ARCH 123	Structural Systems 3	3
ARCH 201	Residential Studio	6
ARCH Degree Electives		5
Sixth Term		
ARCH 202	Commercial Studio	4
ARCH 224	Active and Passive Building Systems	4
ARCH Degree Electives		3
General Education: 1 course		
Seventh Term		
ARCH 203	Residential Renovation Studio	6
General Education: 1 course		
Total Credits		91

ARCHITECTURAL DEGREE ELECTIVES

Code	Title	Credits
ARCH 100	Graphic Communication for Designers	3
ARCH 131	Sustainable Building Strategies	4
ARCH 134	Energy Conservation Code	2
ARCH 200	Principles of Architectural Design	4
ARCH 204	Green Residential Studio	4
ARCH 247	Intermediate Revit Architecture	3
ARCH 280	Cooperative Education:Architectural Design and Drafting	1-4
ART 101	Understanding Architecture	4
BCT 116	Alternative Building Design	3

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ID 121	Sustainable Materials for Residential Interiors	3
ID 131	Introduction to Interiors	3
ID 133	Space Planning	3
ID 135	Professional Practices for Designers	3
ID 138	Introduction to Kitchen and Bath Planning	3
ID 236	Lighting Design	3
ID 238	Advanced Kitchen and Bath Planning	3
MCH 291	Laser Cutting and Engraving Fundamentals	1
MCH 292	FDM Additive Manufacturing Fundamentals Orientation	1.5

ARCHITECTURAL DESIGN AND DRAFTING - RESIDENTIAL AAS DEGREE

Minimum 90 credit. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

COURSE OF STUDY

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
ARCH 100	Graphic Communication for Designers	3
ARCH 110	Introduction to Architectural Drawing	2
ARCH 126	Introduction to AutoCAD	3
ARCH 161	Residential Print Reading	2
Second Term		
ARCH 124	Introduction to Building Systems	3
ARCH 132	Residential Building Codes	2
ARCH 136	Intermediate AutoCAD	3
ART 215	History of American Residential Architecture	3
Third Term		
ARCH 101	Introduction to Residential Design	3
ARCH 121	Structural Systems I	2
ARCH 256	Detail Drawing with AutoCAD	3
Residential Electives		4
Fourth Term		
ARCH 104	Intermediate Residential Design	3
ARCH 111	Intro to Residential Construction Documents	3
ARCH 113	Site Planning	2
ARCH 122	Structural Systems 2	3
ARCH 224	Active and Passive Building Systems	4
General Education: 1 course		
Fifth Term		
ARCH 131	Sustainable Building Strategies	4
ARCH 201	Residential Studio	6
General Education: 1 course		
Sixth Term		
ARCH 200	Principles of Architectural Design	4
ARCH 204	Green Residential Studio	4
ARCH 210	Professional Practices for Architectural Design & Drafting	3
ARCH 237	Introduction to Revit Architecture	3

General Education: 1 course		
Seventh Term		
ARCH 203	Residential Renovation Studio	6
General Education: 1 course		
Total Credits		90

RESIDENTIAL ELECTIVES

Code	Title	Credits
ARCH 134	Energy Conservation Code	2
ARCH 202	Commercial Studio	4
ARCH 247	Intermediate Revit Architecture	3
ARCH 280	Cooperative Education:Architectural Design and Drafting	1-4
ART 101	Understanding Architecture	4
BCT 116	Alternative Building Design	3
BCT 244	Kitchen and Bath Cabinet Installation	2
ID 121	Sustainable Materials for Residential Interiors	3
ID 131	Introduction to Interiors	3
ID 135	Professional Practices for Designers	3
ID 133	Space Planning	3
ID 138	Introduction to Kitchen and Bath Planning	3
ID 236	Lighting Design	3
ID 238	Advanced Kitchen and Bath Planning	3
MCH 291	Laser Cutting and Engraving Fundamentals	1
MCH 292	FDM Additive Manufacturing Fundamentals Orientation	1.5

KITCHEN AND BATH LESS THAN ONE-YEAR CERTIFICATE

Minimum 36 credits. Students must meet all certificate requirements.

COURSE OF STUDY

The coursework listed below is required. The following is an example of a term-by-term breakdown.

First Term		Credits
ID 100	Design Drafting and Visual Communication	3
ID 130	Building Systems for Interior Design	3
ID 131	Introduction to Interiors	3
Second Term		
ID 120	Interior Products and Materials I	3
ID 121	Sustainable Materials for Residential Interiors	3
ID 125	Computer Drafting for Interior Designers	3
ID 138	Introduction to Kitchen and Bath Planning	3
Third Term		
ID 132	Planning Interiors	3
ID 135	Professional Practices for Designers	3
ID 238	Advanced Kitchen and Bath Planning	3
Fourth Term		
ID 133	Space Planning	3
ID 236	Lighting Design	3
Total Credits		36