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.

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

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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ARCH 100</td>
<td>Graphic Communication for Designers</td>
<td>3</td>
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<tr>
<td>ARCH 131</td>
<td>Sustainable Building Strategies</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 134</td>
<td>Energy Conservation Code</td>
<td>2</td>
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<tr>
<td>ARCH 200</td>
<td>Principles of Architectural Design</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 204</td>
<td>Green Residential Studio</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 247</td>
<td>Intermediate Revit Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 280</td>
<td>Cooperative Education:Architectural Design and Drafting</td>
<td>1-4</td>
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<tr>
<td>ART 101</td>
<td>Understanding Architecture</td>
<td>4</td>
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<tr>
<td>BCT 116</td>
<td>Alternative Building Design</td>
<td>3</td>
</tr>
</tbody>
</table>
ARCHITECTURAL DESIGN AND DRAFTING

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
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

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
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