ARAB 102A Arabic IIA  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ARAB 101B or two years of high school Arabic  
Note: Covers the first half of second semester Arabic; not open to students with credit for ARAB 102  
Transfer acceptability: CSU; UC  
Arabic 102A and 102B are equivalent to the second semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

ARAB 102B Arabic IIB  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ARAB 102A or two years of high school Arabic  
Note: Covers the second half of second semester Arabic; not open to students with credit for ARAB 102  
Transfer acceptability: CSU; UC  
Arabic 102A and 102B are equivalent to the second semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

ARAB 201 Arabic III  
5 hours lecture - 1 hour laboratory  
Prerequisite: A minimum grade of ‘C’ in ARAB 102 or three years of high school Arabic  
Transfer acceptability: CSU; UC  
Note: Not open to students with credit for ARAB 201B  
This course is the third semester of Arabic. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Course combines in-class instruction with self-paced study in the World Languages Laboratory. Class is largely conducted in Arabic.

ARAB 201A Arabic IIIA  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ARAB 102B or three years of high school Arabic  
Note: Covers the first half of third semester Arabic; not open to students with credit for ARAB 201  
Transfer acceptability: CSU; UC  
Arabic 201A and 201B are equivalent to the third semester of an intermediate course in Arabic. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Class is largely conducted in Arabic.

ARAB 201B Arabic IIIB  
3 hours lecture  
Prerequisite: A minimum grade of ‘C’ in ARAB 201A  
Note: Covers the second half of third semester Arabic; not open to students with credit for ARAB 201  
Transfer acceptability: CSU; UC  
Arabic 201A and 201B are equivalent to the third semester of an intermediate level course in Arabic. ARAB 201B is a continuation of ARAB 201A. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Class is largely conducted in Arabic.

Associate in Science Degrees -  
AS Degree requirements are listed in Section 6 (green pages).  
• Architectural Drafting  
• Architecture

Certificates of Achievement -  
• Architectural Drafting  
• Architecture  
• Eco-Building Professional

Programs of Study

Architecture  
This coursework prepares students for transfer into a university architectural program. Emphasis is on current architectural and construction practices, fundamental design skills, sustainable building guidelines, and transfer preparation. Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

A.S. Degree Major or Certificate of Achievement

Program Requirements  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ARCH 105</td>
<td>Basic Architectural Drafting</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 120</td>
<td>Architectural History</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 121</td>
<td>Multicultural Architectural History</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 135</td>
<td>Architectural Materials and Methods of Construction</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 144</td>
<td>Architectural Drawing and Color</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 145</td>
<td>Architectural Delineation and Pictorial Drawing</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 155</td>
<td>Architectural Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 215</td>
<td>Architectural Design Fundamentals I</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 216</td>
<td>Architectural Design Fundamentals II</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Units 29

Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

Architectural Drafting  
Prepares students for employment as a design/production drafter in the field of architecture.

A.S. Degree Major or Certificate of Achievement

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</tr>
<tr>
<td>ARCH 150</td>
<td>Introduction to Revit Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ID 150</td>
<td>Computer Aided Drafting for Designers (CADD)</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 160</td>
<td>Environmental Architecture and Design</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 200</td>
<td>Advanced Computer Aided Architectural Drafting</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 202</td>
<td>Introduction to Revit Architecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 29

Eco-Building Professional  
This program is designed to provide the knowledge and skills needed to promote energy and resource efficient building practices through current code changes and new tax cost payback. Graduates will be prepared for numerous jobs within the deconstruction and remodel industries and would have skills needed by builders, contractors, architects or designers seeking assessment of current construction methods for framing, water use and LEED environmental compliance.

See Catalog addendum at http://www.palomar.edu/catalog
## CERTIFICATE OF ACHIEVEMENT

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<tr>
<td>ARCH 160  Environmental Architecture and Design</td>
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</tr>
<tr>
<td>ARCH 216  Architectural Design Fundamentals II</td>
<td>5</td>
</tr>
<tr>
<td>ID 105  Materials and Resources</td>
<td>3</td>
</tr>
<tr>
<td>ID 130  Light and Color</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL UNITS** 19

Recommended Electives: GEOG 120, MATH 60

## COURSE OFFERINGS

### ARCH 105  Basic Architectural Drafting (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
An introduction to architectural drafting including symbols, lettering, construction principles, details, and codes as related to the development of working drawings for simple residential design.

### ARCH 120  Architectural History (3)
3 hours lecture
Transfer acceptability: CSU; UC
An overview of architectural history beginning with prehistoric cultures and continuing through Egyptian and Mesopotamia, Aegean and Greek, Roman and Byzantine, Romanesque and Gothic, and the Renaissance and Baroque periods. The second half of the course focuses on the development of modern Western architecture.

### ARCH 121  Multicultural Architectural History (3)
3 hours lecture
Transfer acceptability: CSU; UC
A comparative study of the architecture of cultures outside the Western mainstream including: Pre-Columbian America; India and Southeast Asia, China and Japan, Russia and Eastern Europe; and the Moslem Empires. Special emphasis on the cultural forces and conditions which shaped and evolved the architecture.

### ARCH 135  Architectural Materials and Methods of Construction (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU
An introduction to the use and application of building construction materials and processes.

### ARCH 144  Architectural Drawing and Color (4)
3 hours lecture - 3 hours laboratory
Transfer acceptability: CSU; UC
An introduction to basic architectural drafting and design that explores the theory and application of perspective, shades and shadows, and color to architectural sketching, drawing, and model building. Includes a basic architectural design problem exploring the concept of architectural complexity.

### ARCH 145  Architectural Delineation and Pictorial Drawing (4)
3 hours lecture - 3 hours laboratory
Recommended preparation: ID/ARCH 150
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC
Principles and techniques of pictorial drawing in architecture including isometric, oblique, and perspective projection; shades and shadows; and presentation graphics. The three-dimensional and shading capabilities of AutoCAD will be utilized in coordination with the use of Photoshop and SketchUp software as a color rendering tool. Abstract architectural design concepts will also be explored.

### ARCH 150  Computer Aided Drafting for Designers (CADD) (3)
1½ hour lecture - 4½ hours laboratory
Note: Cross listed as ID 150
Transfer acceptability: CSU
Introduction to computer aided drafting for architects and interior designers, to include two and three-dimensional drafting, blocks, draw and modify design tools, rendering, barrier free design, and architectural floor plan layouts.

### ARCH 155  Architectural Theory (3)
3 hours lecture
Transfer acceptability: CSU
A study and analysis of the concepts and philosophies that have influenced or been the basis of architectural form from the Classical period to the present. The analysis will include the use of drawing and model-building tools to gain an understanding of these principles applied to specific structures throughout history.

### ARCH 160  Environmental Architecture and Design (4)
3 hours lecture - 3 hours laboratory
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC
Introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings. Includes effective energy use, solar geometry, environmental measurements, heat flow, heat transfer, and thermal masses. Emphasis is on design and construction principles for lighting, passive shading, heating, cooling and ventilating envelope load-dominated buildings. This is a service learning course. Students must be involved in relevant community service as a part of this course work. Students will conduct research and work collaboratively towards a solution for community development.

### ARCH 196  Special Problems in Architecture (1, 2, 3)
1½, 1, or 1½ hours lecture - 1½, 3, or 4½ hours laboratory
Note: May not be taken for Pass/No Pass grading
Transfer acceptability: CSU; UC - credit determined by UC upon review of course syllabus
Designed to enrich the student's experience within the Architecture program and is of a research or special project nature. Content to be determined by the need of the student under signed contract with the instructor.

### ARCH 200  Advanced Computer Aided Architectural Drafting (4)
2 hours lecture - 6 hours laboratory
Recommended Preparation: ARCH 105 and ARCH/ID 150
Transfer acceptability: CSU
Advanced techniques in the operation of AutoCAD software for architectural applications. Preparation of various architectural working drawings from a preliminary residential design.

### ARCH 202  Introduction to Revit Architecture (3)
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
Preparation of basic 3D architectural information models and (BIM). Manipulation for preparation of individual architectural working drawings, including: dimensioned floor plans, building sections, elevations, etc. using Revit software.

### ARCH 215  Architectural Design Fundamentals I (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: ARCH 144 and 145
Transfer acceptability: CSU; UC
Development of problem solving and analytical skills in architectural design involving consideration of factors of architectural form in two- and three-dimensional compositions, and design concepts and applications.

### ARCH 216  Architectural Design Fundamentals II (3)
1½ hours lecture - 4½ hours laboratory
Recommended preparation: ARCH 145 and 215
Transfer acceptability: CSU; UC
Complex architectural problems involving consideration of factors of structure, site, and climate.