

# ARCHITECTURAL DESIGN 1, ASSOCIATE IN SCIENCE DEGREE

**Banner Code:** 1\_AS\_ARCD  
**Financial Aid Eligible**

The Architectural Technology Program offers courses in design, building materials, construction documents, design visualization and graphics, computer-assisted design, building information modeling and fabrication. Our comprehensive program provides students with the discipline and critical thinking skills necessary to transfer to a broad range of universities and the training and technical skills to gain employment with the many and varied firms in Southern California that hire our graduates. Former California Architects Board President, Christine Lampert, AIA, rates our program as one of the top community college programs in the state. OCC's Architecture program has a long history of successful graduates and our current students continue to excel as indicated by winning design awards, high transfer rates, and becoming valued members of the professional community.

Complete the Certificate of Achievement and Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

## Program Outcome

The 1st year Certificate of Achievement in Architectural Design 1 prepares students for an entry-level professional position at an architectural or related design office.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/associate-degree/>) and General Education (<https://catalog.cccd.edu/orange-coast/general-education-patterns/>).

Course	Title	Units
<b>Required Courses</b>		
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A110 or ARCH A110H	Introduction to Architecture Introduction to Architecture Honors	2
ARCH A115	Architectural Design and Theory 1	4
ARCH A155	BIM 1 for Architecture	2
ARCH A180	Architectural Construction Documents	4
ARCH A205	Architectural Drawing and Design Visualization 2	3
<i>Architectural Design Restricted Electives select 2-3 units</i>		2-3
No course may be applied to more than one Architectural Design award.		
ARCH A101	Introduction to Environmental Sustainability	
ARCH A102	Introduction to Environmental Studies	
ARCH A104	Introduction to FrameCAD Steel Framing	
ARCH A107	Tiny House Design	
ARCH A121	FrameCAD Studio 1	

Course	Title	Units
ARCH A122	FrameCAD Studio 2	
ARCH A141	Introduction to Resource Management	
ARCH A150	CAD 2-D for Architecture <sup>1</sup>	
ARCH A142	Environmental Advocacy	
ARCH A156	BIM 2 for Architecture	
ARCH A160	3-D Modeling: SketchUp 1	
ARCH A162	3-D Modeling: Rhino 1	
ARCH A165	Presentation Graphics	
ARCH A170	Introduction to Design Fabrication	
ARCH A171	Design Fabrication 1	
ARCH A172	Design Fabrication 2	
ARCH A201 or ARCH A201H	Design/Build 1 for Architecture Design/Build 1 for Architecture Honors	
ARCH A210	Environmental Design Field Studies	
ARCH A241	FrameCAD Workshop 1	
ARCH A242	FrameCAD Workshop 2	
ARCH A243	FrameCAD Workshop 3	

**Total Units** 19-20

<sup>1</sup> Elective courses not textbook cost free.

Requirement	Units
Minimum Program Major Units	19-20
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
<b>Total Degree Units</b>	<b>60</b>

## Program Sequence

These sequences at Orange Coast College are general course curriculum maps for students to finish all major and general education requirements for two-year completion of degrees, and/or fulfillment of transfer requirements. The course sequence may include course prerequisites and other placement requirements. **Students are advised to meet with an Orange Coast College Counselor to review course selections and sequences to ensure that completion of this program will meet a student's transfer and career goals.**

Course	Title	Units
<b>Year 1</b>		
<b>Semester 1</b>		
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A110 or ARCH A110H	Introduction to Architecture or Introduction to Architecture Honors	2
ARCH A155	BIM 1 for Architecture	2
OCC AS GE AREA A1 - CHOOSE ONE		3
OCC AS GE AREA C1 - CHOOSE ONE		3
Select one of the following or satisfy Math competency (completion of High School Algebra 2 with a "C" or better):		3-4
MATH A030 or MATH A045	Intermediate Algebra (or higher) <sup>1</sup> or Combined Elementary and Intermediate Algebra	
<b>Units</b>		<b>15-16</b>

Course	Title	Units
<b>Semester 2</b>		
ARCH A180	Architectural Construction Documents	4
ARCH A115	Architectural Design and Theory 1	4
ARCH A205	Architectural Drawing and Design Visualization 2	3
AS RESTRICTED ELECTIVE – Select 2-3 Units (See Requirements)		2-3
ELECTIVE (DEGREE APPLICABLE) UNITS		2
<b>Units</b>		<b>15-16</b>
<b>Year 2</b>		
<b>Semester 1</b>		
OCC AS GE AREA B - CHOOSE ONE		3-4
OCC AS GE AREA C2 - CHOOSE ONE		3
OCC AS GE AREA D - CHOOSE ONE		3
OCC AS GE AREA A2 - CHOOSE ONE <sup>2</sup>		3-4
ELECTIVE (DEGREE APPLICABLE) UNITS		3
<b>Units</b>		<b>15-17</b>
<b>Semester 2</b>		
ELECTIVE (DEGREE APPLICABLE) UNITS <sup>3</sup>		15
<b>Units</b>		<b>15</b>
<b>Total Units</b>		<b>60-64</b>

<sup>1</sup> Math A120 recommended; Math A030 or higher OR take 3-4 degree applicable elective units if math competency was met through completion of High School Algebra 2 with a "C" or better; \*100-level Math courses satisfy AS Math Requirement and OCC AS GE AREA A2

<sup>2</sup> OCC AS GE AREA A2 - Required if 100-level MATH was not taken to meet Math competency. If MATH A100 or higher will be taken, then needs to take 3-4 degree applicable elective units

<sup>3</sup> VARIES TO REACH MINIMUM 60 DEGREE APPLICABLE UNITS