

# ARCHITECTURAL DESIGN 1, ASSOCIATE IN SCIENCE DEGREE

Financial Aid Eligible

Banner Code: 1\_AS\_ARCD

Control Number: 03955

Complete the Architectural Design 1 Certificate of Achievement and the Associate in Science graduation requirements as outlined in the Graduation Requirements section of the catalog.

This certificate may be completed with no required textbook costs. All required courses will have at least one section each semester that has either an online textbook provided to you free of charge or no required textbook. Most of the restricted electives are also textbook cost free. You may be required to purchase other course supplies for these classes. You may also choose to purchase a print copy of any of these texts if you wish.

## Program Outcome

1. An entry-level professional position at an architectural or related design office.

## Associate in Science Degree Requirements

1. **UNIT REQUIREMENT** - 60 UNITS, with at least a 2.0 grade point average. At least 12 of the units must be earned at OCC, with a minimum of one course taken for a letter grade. At least 3 units in an advanced course from the program must be completed at OCC. A student must be enrolled at the time of application for graduation. Units earned at an accredited college or university on a credit/no credit basis will be counted toward the degree requirements of the college, to a maximum of 15 units.
2. **MAJOR REQUIREMENT** - Complete the AA or AS major requirements as detailed in the Degree and Certificate section of this catalog.
3. **MATHEMATICS REQUIREMENT** - Demonstrate competence in mathematics by either obtaining a satisfactory grade (grade of "C" or better or "pass") in a mathematics course at or above the level of Intermediate Algebra as demonstrated by prior coursework, or by demonstrating competency that is comparable through the completion of a college-level math course that has Intermediate Algebra as a prerequisite: Psychology A160 or Math A100 or higher, with the exception of Math A220.
4. **GENERAL EDUCATION REQUIREMENT** - Students may choose to complete Option 1 (OCC AA GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-arts-general-education-option-1/>), Option 1 (OCC AS GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-science-general-education-option-1/>), Option 2 (CSU GE) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-2/>), or Option 3 (IGETC (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>)) (<https://catalog.cccd.edu/orange-coast/general-education-patterns/associate-degree-general-education-option-3/>) to satisfy the general education requirement. See

the General Education Patterns section of this catalog for more information.

Course	Title	Units
<b>Year 1</b>		
<b>Semester 1</b>		
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A110	Introduction to Architecture	2
ARCH A155	BIM 1 for Architecture	2
<b>Units</b>		<b>6</b>
<b>Semester 2</b>		
ARCH A115	Architectural Design and Theory 1	4
ARCH A180	Architectural Construction Documents	4
ARCH A205	Architectural Drawing and Design Visualization 2	3
Architectural Design Restricted Elective(s) ARCH (see list)		2
<b>Units</b>		<b>13</b>
<b>Total Units</b>		<b>19</b>

## Architectural Design 1 Restricted Electives

No course may be applied to more than one Architectural Design award.

Course	Title	Units
ARCH A101	Introduction to Environmental Sustainability	1
ARCH A104	Introduction to FrameCAD Steel Framing	1
ARCH A107	Tiny House Design	1
ARCH A121	FrameCAD Studio 1	2
ARCH A122	FrameCAD Studio 2	2
ARCH A150	CAD 2-D for Architecture <sup>1</sup>	2
ARCH A156	BIM 2 for Architecture	2
ARCH A160	3-D Modeling: SketchUp 1	2
ARCH A162	3-D Modeling: Rhino 1	2
ARCH A165	Presentation Graphics	2
ARCH A167	Presentation Video <sup>1</sup>	1
ARCH A170	Introduction to Design Fabrication	1
ARCH A171	Design Fabrication 1	2
ARCH A172	Design Fabrication 2	2
ARCH A201	Design/Build 1 for Architecture	2
ARCH A241	FrameCAD Workshop 1	2
ARCH A242	FrameCAD Workshop 2	2
ARCH A243	FrameCAD Workshop 3	2

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

Requirement	Units
Minimum Program Major Units	19
AS General Education Option 1, 2, or 3	Varies
Total Degree Units	60