

# ARCHITECTURAL DESIGN 2, ASSOCIATE IN SCIENCE DEGREE

Financial Aid Eligible

Banner Code: 1\_AS\_ARDD

Control Number: 16887

Complete the Architectural Design 2 Certificate of Achievement and the Associate in Science graduation requirements as outlined in the Graduation Requirements section of the catalog.

## Program Outcomes

1. Critical thinking, design, and visual communication for successful transfer to a university professional program in Architecture and/or related Environmental Design.
2. A junior/intermediate level drafting/design position at an architectural or related firm.

## 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/pathways/visual-arts-design-performing-arts/architectural-technology/architectural-design-2-associate-science-degree/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/>)) to satisfy the general education requirement. See the General Education Patterns section of this catalog for more information.

## Required Prerequisites

Architectural Design 1 Certificate of Achievement

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
Units		6
<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
Units		13
Total Units		19

## 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.

### Subtotal - 19

Course	Title	Units
<b>Year 1</b>		
<b>Fall</b>		
ARCH A185	Environmental Design Systems	4
ARCH A215	Architectural Drawing and Design Theory 2	4
Architectural Design Restricted Elective(s) ARCH (see list)		2
Units		10
<b>Spring</b>		
ARCH A220	Building Materials and Systems	4
ARCH A230	Architectural Design and Theory 3	5
Architectural Design Restricted Elective(s) ARCH (see list)		2
Units		11
Total Units		21

Total Units 40

## Architectural Design 2 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	40
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
Total Degree Units	60