

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/industrial-technology/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
Year 1		
Semester 1		
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A110	Introduction to Architecture	2
ARCH A155	BIM 1 for Architecture	2
Units		6
Semester 2		
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 ¹	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 ¹	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

¹ Elective courses not textbook cost free.

Subtotal 19

Course	Title	Units
Year 1		
Fall		
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
Spring		
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 ¹	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 ¹	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

¹ 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