ARCHITECTURAL DESIGN 2, ASSOCIATE IN SCIENCE DEGREE

Banner Code: 1_AS_ARDD
Control Number: 16887
Financial Aid Eligible

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.

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/).

Required Prerequisites

Architectural Design 1 Certificate of Achievement (19 Units)

Course	Title	Units
Required Courses		
ARCH A105	Architectural Drawing and Design Visualization 1	2
ARCH A110	Introduction to Architecture	2
or ARCH A110H	Introduction to Architecture Honors	
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
Architectural Design Restricted Electives select 2-3 units		*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	
ARCH A122	FrameCAD Studio 2	
ARCH A141	Introduction to Resouse Management	
ARCH A150	CAD 2-D for Architecture [1]	
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	Design/Build 1 for Architecture	
or ARCH A201H	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**

[1]

Elective courses not textbook cost free.

Architectural Design 2 Requirements

Course	Title	Units
Required Courses		
ARCH A185	Environmental Design Systems	4
ARCH A215	Architectural Drawing and Design Theory 2	4
ARCH A220	Building Materials and Systems	4
ARCH A230	Architectural Design and Theory 3	5
or ARCH A230H	Architectural Design and Theory 3 Honors	
Architectural Design Restricted Electives select 4 units [2]		*4*
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	
ARCH A122	FrameCAD Studio 2	
ARCH A141	Introduction to Resouse Management	
ARCH A142	Environmental Advocacy	
ARCH A150	CAD 2-D for Architecture [1]	
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	Design/Build 1 for Architecture	
or ARCH A201H	Design/Build 1 for Architecture Honors	
ARCH A202	Design/Build 2 for Architecture	
or ARCH A202H	Design/Build 2 for Architecture Honors	
ARCH A210	Environmental Design Field Studies	
ARCH A241	FrameCAD Workshop 1	
ARCH A242	FrameCAD Workshop 2	

Course	Title	Units
ARCH A243	FrameCAD Workshop 3	
Total Units		**21**

[1]

Elective courses not textbook cost free.

[2]

Must be different than the elective chosen from Level 1

Requirement	Units
Minimum Program Major Units	40-41
AS General Education Option 1, 2, or 3	Varies
Transferable electives to satisfy unit requirement	Varies
Total Minimum Degree Units	60

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
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
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): [1]		3-4
MATH A030 or MATH A045	Intermediate Algebra (or higher) [1] or Combined Elementary and Intermediate Algebra	
	Units	**15-16**
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 – CHOOSE 2 UNITS (See Requirements)		2
OCC AS GE AREA A2 – CHOOSE ONE [2]		3-4
	Units	**16-17**
Year 2		
Semester 1		
Architectural Design 1 Certificate of Achievement is prerequisite for Architectural Design 2		
ARCH A185	Environmental Design Systems	4
ARCH A215	Architectural Drawing and Design Theory 2	4
ARCHITECTURAL DESIGN RESTRICTED ELECTIVE – CHOOSE 2 UNITS (See Requirements) [3]		2
OCC AS GE AREA C2 - CHOOSE ONE		3
OCC AS GE AREA D - CHOOSE ONE		3
	Units	**16**
Semester 2		
ARCH A220	Building Materials and Systems	4
ARCH A230	Architectural Design and Theory 3	5
ARCHITECTURAL DESIGN RESTRICTED ELECTIVE – CHOOSE 2 UNITS (See Requirements) [3]		2
OCC AS GE AREA B - CHOOSE ONE		3-4
	Units	**14-15**
	Total Units	**61-64**

[1]

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

[2]

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

[3]

Must be different than the elective chosen from Level 1