



# Architecture

**Degree**

Architectural Drafting, Associate of Science

**Certificate**

Architectural Computer Aided Drafting, Job Skills Certificate

## Architectural Drafting Associate of Science Degree

This degree covers the principles of architectural CAD to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

### Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills required for employment in the architecture industry.
- demonstrate problem solving skills used in architectural design.
- demonstrate a deep understanding of the core material required for transfer to a four-year university architectural degree program or for certification in architecture.

### To Transfer Coursework

A minimum of 40.5 semester units in the major with a grade of 'C' or better while maintaining a minimum grade point average of at least 2.0 in all California State University transferable coursework.

### To Achieve the Associate of Science Degree

Upon completion of graduation requirements and the required degree courses with at least a 'C' grade in each course, the student will be awarded an Architectural Drafting Associate of Science degree.

### Total Units: 40.5

#### Required Courses

| Course # | Name  | Units |
|----------|---|-------|
| ARCH B1  | Introduction to Architecture and Environmental Design | 1.5   |
| ARCH B6  | Materials of Construction                             | 3.0   |
| ARCH B11 | Design and Perspective Drawing                        | 4.0   |
| ARCH B12 | Design Drawing and Color                              | 4.0   |
| ARCH B16 | Digital Tools for Graphics Communication              | 3.0   |
| ARCH B21 | Architectural Design Fundamentals I                   | 4.0   |
| ARCH B22 | Architectural Design Fundamentals II                  | 4.0   |
| ARCH B30 | Residential Building Information Modeling             | 4.0   |
| ARCH B33 | Architectural Computer Practice                       | 3.0   |
| INDR B12 | Introduction to Drafting and CAD                      | 2.0   |
| MATH B1A | Precalculus I   | 4.0   |
|          | <i>or</i>   |       |
| MATH B6A | Analytic Geometry/Calculus I                          | 4.0   |
| PHYS B2A | General Physics – Mechanics and Heat                  | 4.0   |

## Architectural Computer Aided Drafting Job Skills Certificate

This certificate covers the principles of architectural computer aided drafting to include basic 2D and 3D AutoCAD application as well as BIM related software covering architectural practices including both residential and light commercial working documents. Emphasis is also placed on architectural delineation using software.

### Program Learning Outcomes

Upon successful completion, the student will:

- demonstrate proficiency in technical skills and safety principles required for industrial employment.
- demonstrate a deep understanding of the core material required for transfer to a four-year university degree program or for certification in the department programs.
- demonstrate problem solving skills used in industrial design and product development.

### To Achieve the Job Skills Certificate

Upon completion of the following courses with at least a 'C' grade in each course, the student will be awarded an Architectural CAD Job Skills Certificate.

### Total Units: 11

#### Required Courses

| Course #  | Name                                     | Units |
|-----------|--|-------|
| INDR B12  | Introduction to Drafting and CAD         | 2.0   |
| INDR B20A | Computer Aided Drafting and Design CAD   | 3.0   |
| ARCH B16  | Digital Tools for Graphics Communication | 3.0   |
| ARCH B33  | Architectural Computer Practice          | 3.0   |