

ARCHITECTURAL DRAFTING 15.1303.00

Program Description, Industry Credentials, Coherent Sequence, and Teacher Certification Requirements

PROGRAM DESCRIPTION

The **Architectural Drafting** program prepares individuals to apply technical knowledge and skills to develop working drawings and electronic simulations for architectural and related construction projects. The **Architectural Drafting** program includes instruction in basic construction and structural design, architectural rendering, computer-aided drafting (CAD), layout and designs, architectural blueprint interpretation, building materials, and basic structural wiring diagramming.

The **Architectural Drafting** CTE program is delivered as a coherent sequence of courses designed to offer students knowledge and skills that meet the needs of the workplace. The Professional Skills developed by business and industry leaders across Arizona are integrated throughout the program. **Architectural Drafting** students learn how to get along with their team members, to make critical decisions, to solve problems, to develop respect, and to be successful in their chosen occupation. Students also develop leadership, social, civic, and career skills through their participation in the state-recognized Career and Technical Student Organization SkillsUSA.

The **Architectural Drafting** instructional program prepares students for entry-level employment, further training, and/or postsecondary education for these and other occupations: Architectural Related Services, Engineering Related Services, Residential Building Construction, Employment Services, Nonresidential Building Construction, Building Equipment Contractor, Architectural and Structural Metals Manufacturing, Foundation Contractor, Structure Contractor, Building Exterior Contractor, Management, Scientific, and Technical Consulting Services, Executive, Legislative, and Other General Government Support, Other Wood Product Manufacturing, Veneer, Plywood, and Engineered Wood Product Manufacturing, Management of Companies and Enterprises, Building Finishing Contractors, Household and Institutional Furniture, Kitchen Cabinet Manufacturing, Justice, Public Order, and Safety Activities, and Land Subdivision.

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INDUSTRY CREDENTIALS

The following credentials have been approved for the A-F CCR and are CTED eligible for the **Architectural Drafting** instructional program:

- Autodesk Certified User (ACU) – 3Ds Max
- Autodesk Certified User (ACU) – AutoCAD
- Autodesk Certified User (ACU) – Fusion 360 CAD
- Autodesk Certified User (ACU) – Inventor – Imperial
- Autodesk Certified User (ACU) – Inventor – Metric
- Autodesk Certified User (ACU) – Maya
- Autodesk Certified User (ACU) – Revit Architecture – Imperial
- Autodesk Certified User (ACU) – Revit Architecture – Metric
- Certified SolidWorks Associate (CSWA)

The following industry credentials have been approved to meet CTED eligibility for the **Architectural Drafting** instructional program:

- ArcGIS® Certified Desktop Entry Certification
- Autodesk Certified Professional
- Computer Assisted Design and Drafting Technology Level 1
- Certificate of Proficiency: Drafting
- Certified Apprentice Drafter – High School
- Certified Drafter – Advanced High School

COHERENT SEQUENCE

15.1303.11 – Architectural Drafting I, **and**

15.1303.20 – Architectural Drafting II, **and program may elect to add:**

15.1303.25 – Architectural Drafting III, **or**

15.1303.31 – Architectural Drafting IV, **or**

15.1303.70 – Architectural Drafting – DCE (Diversified Cooperative Education) **or**

15.1303.75 – Architectural Drafting – Internship **or**

15.1303.80 – Architectural Drafting – Cooperative Education

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TEACHER CERTIFICATION REQUIREMENTS

The instructor must be ADE/CTE certified in one of the following Certificates:

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| SCTIET | Standard Career and Technical Education Industrial and Emerging Technologies |
| SSCTEIET | Standard Specialized Career and Technical Education Industrial and Emerging Technologies |

- Note:
- Architectural Drafting 15.1300.70 (DCE) requires a CTE Teacher to have the Cooperative Education Endorsement (CEN).
 - Architectural Drafting 15.1300.75 (Internship) **does not** require a CTE Teacher to have a Cooperative Education Endorsement (CEN).
 - Architectural Drafting 15.1300.80 (Cooperative Ed.) requires CTE Teacher to be appropriately certified for the program and to have a Cooperative Education Endorsement (CEN).