CTE Architecture Pathway Course Sequence

**Architectural Design 1**

*Optional Butte College credit
* A-G “F” Area

Basic elements of Architectural Design, introduction to Uniform Building Code standards, introduction to elements of fine arts as they pertain to Architectural Design, individual room and space planning, and the completion of a student portfolio which contains a partial set of working drawings for a two bedroom, one bath house. Plans will be completed on computer using AutoCAD software. Floor plans, electrical plans and elevations will be completed in this class with AutoCAD software. A full scale 3D model will be created with Sketch Up software.

**Architectural Design 2**

Year-long course for students who have successfully completed Arch Design 1. Class starts by creating a foundation plan with details, section plan with details and a site plan in Auto CAD. A framing unit will be completed in Sketch Up that will cover floor framing, wall framing and roof framing. Finally, Revit software will be used to recreate a more complete set of plans and details in 2D and 3D formats. 3D printers will be used to model all Revit projects.

**Architectural Design 3&4**

Year-long courses for students who have successfully completed Arch Design 1 & 2. Students must demonstrate the ability to create residential designs utilizing technical sketching, modeling and CAD presentations. Revit is the primary software used in these classes. All projects will be client-based or part of the architecture internship program. 3D printers will be used to create models of all Revit projects.

More information about this pathway…

Students will work closely with business partners in the community. Local Architects have students engage in client-based projects and internships in advanced courses. Students use state-of–the-art technology and industry-standard software.

Note: These templates are designed to help guide students. The order of some classes may vary and individual variation can be applied.