

## Architecture & Engineering Design Technology FAQs

### Does my student need any previous experience before taking this class?

No. If students have some experience with intro level classes at their home school such as Introduction to Engineering Design (IED), that is great; however, no experience necessary.

### If my student attends this course, should they go to college or straight to the workforce?

College. This course is designed to prepare students to attend either a two-year or four-year college in the fields of architecture, engineering, manufacturing, or construction.

### How much homework can a student expect from this course?

Given that most of the software and equipment is located within the classroom, students should expect a minimum of one hour a week with the possible maximum of eight hours. The amount of homework depends on the topics being covered in class, assigned projects, and how efficient the student is at using the lab time available during class.

### What expenses will I incur? Fees, book rental or purchase, tool costs, etc.?

Yes. Please see the below for a typical list of supplies and textbooks that will be required for the class.

- Pens and/or pencils
- (1) USB flash drive, minimum 16 GB (*approximately \$5.00-\$20.00 depending on make/model*)
- (1) 1" three-ring binder
- (2) Index Dividers (8-tabs)
- (1) Pair of non-tinted safety glasses (*may be purchased through instructor... approximately \$5.00*)
- Architectural chipboard, form core, and/or mat board (*approximately \$12.00-\$20.00*)
- Miscellaneous project materials (*approximately \$15.00*)

Students need to come to class prepared with their subject binder, books, pencil, pen, and paper every day.

In addition to the above, students will be required to register and complete certification exams on the software covered within the classroom. At this time, the cost of the certification exams are covered by the school corporation.

**What software would be taught as part of this program?**

Within the two years of the program students will become familiar and use the following software titles:

- Autodesk AutoCAD (intermediate level)
- Autodesk Revit (intermediate level)
- Microsoft Excel (intermediate level)
- SolidWorks (beginning level)
- Adobe InDesign (beginner level)
- Adobe Illustrator (beginner level)
- Adobe Photoshop (beginner level)
- Trimble SketchUp (intermediate level)

**Is college dual credit available for this course? If so, is there a cost? How many credit hours is available? Is the college dual credit transferrable to other colleges?**

Yes. Depending on pre-requisites that the student may have coming to the course, we are offering up to 18 hours of transcribed dual college credit through Ivy Tech Community College and nine (9) transcribed dual college credit through University of Southern Indiana. The cost for the dual credit is \$0.00. These college credits may be transferable to other colleges/universities.

In addition to the dual credits, student have the opportunity to earn and obtain five (5) industry-recognized certifications. These include: Autodesk Certified User: AutoCAD and Revit, SolidWorks CSWA, Microsoft Office Specialist: Excel, and a FAA Part 107 Remote Pilot Certificate.

**If my student is undecided on what field of architecture or engineering to pursue in college, will this class help them decide?**

Absolutely. We want to help students not only decide go to college, but also to ensure that once they reach college they have an understanding on their field of interest. During their time at the SICTC, students will work on several skills and be placed in different scenarios that correspond with different fields related to engineering and architecture. We also will introduce problem solving, design, and team building skills during this time that translate to multiple fields of study. From their experience they will have the opportunity to gain an understanding of careers and what it takes to be successful in college and beyond.