

## Mechanical Drafting and Design I FAQs

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

Yes. A student must have successfully completed the first-year architectural and engineering courses at the Southern Indiana Career and Technical Center.

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.

- The Architecture Reference + Specification Book by Julia McMorrough (*purchased through SICTC bookstore... approximately \$15.00*)
- (1) USB flash drive, minimum 16 GB
- (1) 1" three ring binder
- (1) TOPS™ Engineer's Computation Pad, 8 1/2" x 11", 200 Sheets, Green
- Pens and/or pencils
- (1) Index Dividers (8-tabs)
- (1) Pair of non-tinted safety glasses
- Architectural chip board, form core and/or mat board (*Purchased for various project requirements during the year.*)

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

What software would be taught as part of this program?

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

- SolidWorks (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 three (3) hours of transcribed dual college credit through the University of Southern Indiana (USI). The cost for the credit is \$0.00. To obtain the dual college credit, a student must be enrolled in the course for an entire year and must have a yearly average grade of a 'C' or higher. This college credit is transferable to other colleges/universities... please contact USI for a list of these schools.

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.

Is a second-semester internship available for this course?

Possibly. To be eligible for a second semester internship, students will need to successfully complete the requirements for the course(s) they are currently enrolled, as well as, demonstrate to the instructor that they are ready to work in a professional atmosphere.