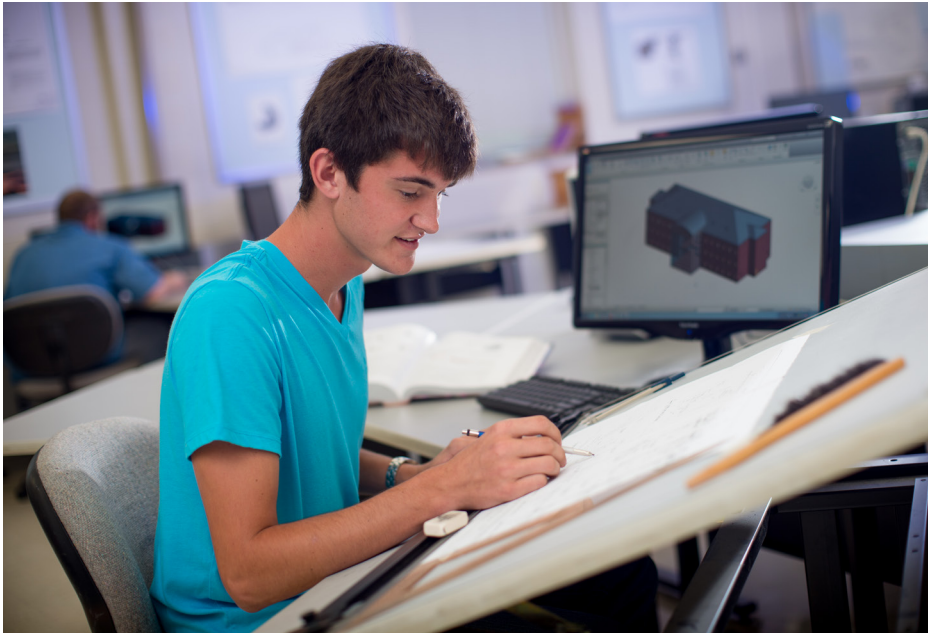


TECHNICAL DRAFTING



In a technical drafting career, you create plans to bring projects to life. Technical drafters utilize computer-aided design or CAD to become an indispensable part of any design team. Preparing drawings and reproductions are all part of a day's work. At Washburn Tech, you will use the latest tools and equipment to turn your career plan into reality.

Learning at Washburn Tech

Our technical drafting program provides hands-on experience in the proper use of drafting tools, software and equipment. You will learn to prepare drawings and reproductions, and develop skills, knowledge and techniques for use in a variety of areas in the drafting field. Our program focuses on the fundamentals of CAD, emphasizing the use of computer hardware and software in processing and retrieving drawings and data files. Emphasis is placed on 3-D modeling. Other areas of study include applied algebra, geometry and trigonometry, as well as

scientific and physical principles of construction and manufacturing materials and techniques. Attending full-day, you can complete the program in two semesters, while half-day and high school students can finish in four semesters. Upon completion, you will earn a 48-credit-hour technical certificate and be eligible to complete an associate degree or more advanced degrees at Washburn University.

Job and Salary Outlook

Opportunities in this field are best for those who have completed four semesters of post-secondary training. Demand depends on the needs of local industry. According to the Kansas Department of Labor, the average entry-level salary for a civil drafter in 2015 was \$15.38 an hour or \$31,985 annually. The average wage was \$20.90 an hour or \$43,466 annually.

Entry Requirements

Students are required to take the ACT WorkKeys exam and score a minimum of 4 in reading and 5 in math. Other assessments or college coursework can be accepted in place of WorkKeys. Please see a recruiter for details. Students also must complete an application and submit an official copy of all transcripts.

CERTIFICATIONS:
OSHA-10

For more programs, enrollment and course schedule information, please contact Admissions. Financial Aid is available to those who qualify.

Washburn University Institute of Technology
5724 SW Huntoon St., Topeka, Kansas 66604 | 785.670.2200 | washburntech.edu



TECHNICAL DRAFTING

Course Descriptions

General Drafting: introduces the fundamental drawing types including geometric construction, ortho-graphic views, sections, auxiliary views and development

Drafting Standards: focuses on time keeping, filing, drawing logs and drawing cross references; students also develop skills in organization, accuracy, neatness, attendance policies, dress codes and safety

Technical Math I: a math review of practical skill as related to the drafting workplace

Technical Math II: a math review of practical skill as related to the drafting workplace where the students utilize plane geometry, right triangles, oblique triangles, trigonometric natural and co-functions, solutions of triangles right and oblique, computation of areas and volumes, and use of charts and graphs

CAD I: introduces AutoCAD software as a drafting tool

CAD II: covers intermediate AutoCAD commands including attribute blocks, external references, object linking/embedding, advanced drawing set-up and user coordinate systems

Machine Design: introduces fundamentals, theory, terminology and practical construction methods in the machine disciplines

Architectural Design: covers architectural drafting fundamentals

Industrial Design: introduces mechanical drafting utilizing Autodesk's INVENTOR software through parametric 3D-design tools for assembly centered modeling and collaborative engineering

Civil Design: introduces civil drafting applications using civil, mapping and survey products

CAD III: covers advanced AutoCAD commands including advanced plotting, plotter, CAD standards, modeling 3-D wire frame, surfaces, solids and 3-D presentation

Workplace Skills: utilizes Key Train software to advance knowledge in Applied Math, Reading for Information and Locating Information WorkKeys assessments that are required prior to exiting the program

CHECKLIST

Meet with recruiter

Take ACT WorkKeys*

Submit transcript(s)

Pay enrollment fee

*some exceptions apply

TOTAL 2017-2018 PROGRAM COSTS (ESTIMATED) - HIGH SCHOOL

Enrollment fee	\$20
Tuition	FREE
All other fees	\$929
TOTAL	\$949

ADDITIONAL ESTIMATED CHARGES

Tools/Books Estimate*	\$303
-----------------------	-------

TOTAL 2017-2018 PROGRAM COSTS (ESTIMATED) - ADULT

Enrollment fee	\$50
Tuition	\$6,048
All other fees	\$929
TOTAL	\$7,027

ADDITIONAL ESTIMATED CHARGES

Tools/Books Estimate*	\$303
-----------------------	-------

* A list of required tools/books is on a separate sheet of paper and on our website, WashburnTech.edu. Students also will need to purchase supplies such as (but not limited to) pens/pencils, notebooks/paper, three-ring binder, etc. Students may purchase them at the vendor of their choice.

