



DESIGN YOUR FUTURE
BASED ON A GREAT CAREER

Engineering Drafting & Design

[DESIGN + TECHNOLOGY]



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 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 3D 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.

JOB AND SALARY OUTLOOK

Opportunities are best for those who have completed post-secondary training. Kansas Department of Labor reports the average entry-level salary for a civil drafter in 2023 was \$19.69 an hour or \$40,951 annually. The average wage was \$25.77 an hour or \$53,606 annually.

ENTRY REQUIREMENTS

For dual-credit high school students submission of an application, official partial transcript, and consent to enroll form are required. Adult students must complete an application and submit an official copy of all transcripts. Please see an admissions counselor for details.



Build your best self.

TALK TO AN ADMISSIONS COUNSELOR TODAY!

785.670.2200

CAREERS IN DRAFTING »

- + CAD drafters
- + CAD designers
- + auto design
- + architectural
- + building drafters
- + blueprint tracers
- + aeronautical drafters
- + circuit board drafters

Engineering Drafting & Design

COURSE DESCRIPTIONS

INTRODUCTION TO DRAFTING

Introduces the application of fundamental drawing types including geometric construction, orthographic views, sections, auxiliary views and development

TECHNICAL MATH

Math review of practical skill as related to the workplace

COMPUTER AIDED DRAFTING I

Introduces AutoCAD software as a drafting tool

COMPUTER AIDED DRAFTING 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 machine disciplines

COMPUTER AIDED DRAFTING III

Introduces students to 3D mechanical and industrial design software - solid edge

INDUSTRIAL DESIGN

Uses the acquired knowledge from the Machine Design and CAD III courses to produce industrial design projects

ARCHITECTURAL DESIGN I & II

Learn tools and techniques used to create a 3-story commercial building with Revit

CIVIL DESIGN I & II

Introduces civil drafting applications using civil, mapping and survey products: second course introduces software used in the industry

STRUCTURAL DESIGN

Covers fundamental aspects of structural design

WORKPLACE SKILLS

Utilize Key Train software to advance knowledge in Applied Math, Reading for Information and Locating Information WorkKeys assessments

MANUFACTURING DESIGN & 3D PRINTING

Focusing on manufacturing materials and CAD/CAM software, students will create projects using industry methods and standards

PRESENTATIONS & SPECIAL PROJECTS

Create advanced presentations, videos and simulations



APPLICATION CHECKLIST



**SUBMIT
APPLICATION**



**MEET WITH
ADMISSIONS**



**SUBMIT
TRANSCRIPT(S)**



**ENROLL IN
CLASSES**

2024-2025 PROGRAM COSTS (Estimated)

	HIGH SCHOOL	ADULT
Tuition	*1,422	\$8,945
All other fees	\$243	\$1,361
TOTAL	\$1,665	\$10,306

*Tiered courses are paid by Excel in CTE. Non-tiered courses are paid by the student.

ADDITIONAL CHARGES (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	\$375	\$375

MORE INFO »

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

CALL **785.670.2200**

TO TALK W/ ADMISSIONS COUNSELOR