

ENGINEERING DRAFTING & DESIGN, AAS

The Engineering Drafting & Design AAS equips students with practical skills in both traditional drafting and modern design technologies, essential across the fields of architecture and engineering. Students develop expertise in creating precise, standards-based technical drawings and 3D models using industry-standard software such as AutoCAD, Revit, Civil 3D, and Inventor. The coursework emphasizes hands-on experience with real-world projects, including residential and commercial building design, mechanical components, manufacturing processes, and civil infrastructure. Mathematical principles are integrated throughout to enhance problem-solving and ensure technical accuracy. With a strong focus on applied learning, digital workflows, and industry best practices, the program prepares students for entry-level roles in drafting and design.

Program Information

- Program Start (semesters): August; January
- Industry-recognized credentials: AutoCAD Certified User, Revit Certified User, Inventor Certified User

Degree Requirements

In addition to the requirements stated below, students must complete all requirements for an Associate of Applied Science (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/aas-degrees/>) degree. Completion of the courses below will fulfill the general education requirements for the degree. Please see your advisor for more information.

Code	Title	Hours
Required Certificate		
Washburn Tech Engineering Drafting & Design Technical Certificate C		
Required General Education Courses		
EN 101	Introductory College Writing	3
MA 112	Contemporary College Mathematics (or higher)	3
At least 9 hours of additional general education courses from three of the following areas, and from at least three different disciplines:		9
Communications		
Natural Sciences		
Social Sciences		
Arts and Humanities		
Inclusion and Belonging		
Scientific Reasoning and Literacy		