

Architectural Design/Drafting

Technical Drafting is the foundation for communication in a wide variety of technical fields. The curriculum utilized in this program provides students the opportunity to gain valuable hands-on experience to prepare them for entry level Technical Drafting & Design positions or serves as a foundational program for students considering pursuing post-secondary Architecture or Engineering programs. Students in this program will have the opportunity to learn and develop employable skills utilizing both traditional manual drafting techniques and CAD software (*AutoCAD* & *Inventor*). Students will have instruction using an architectural based curriculum the first year, and a mechanical based curriculum the second year. With both curriculums, students will develop basic blueprint reading skills and will learn to apply drafting and annotation concepts to create a variety of working drawings, assembly drawings, and 3D models which correlate with industry standards. Both courses (Architecture & Mechanical Design) offer two levels of instruction. Level 1 would be taken during the Fall semester and Level 2 taken during the Spring semester of the same year. At the end of the second level students will have the opportunity to earn AutoCAD Certification the first year and Inventor Certification the second year. Project-based learning and scale model building will also be utilized to provide opportunities for students to incorporate design techniques as well as apply soft skills, teamwork, and problem solving strategies. Career exploration and goal setting will also be incorporated into the curriculum.

Program Duration & Grade Level

Architectural Design is offered for year one of the program, and Mechanical Design is offered for year two of the program. Students who complete both courses would be able to earn completer status. This program is offered to 10th-12th grade students.

Certifications & Qualifications

Students will have the opportunity to receive the following industry recognized certifications:
Architecture Course: Autodesk AutoCAD User Certification
Mechanical Course: Autodesk Inventor User Certification

Requirements for Program

Successful Completion of Algebra 1

Estimated Pay

Jobs in Architecture and Engineering

Entry Level	Median	Experienced
\$48,915	\$77,740	\$99,510