

This document outlines the purchase of a laser engraving/cutting machine for shared use in the Graphic Design and Engineering classes. The equipment will enhance hands-on, project-based learning opportunities within both programs.

The laser machine will allow students to design, prototype, and produce real-world products using industry-relevant technology. In Graphic Design, students can bring digital designs to life through engraving and product creation. In Engineering, students can design, test, and refine prototypes while applying principles of measurement, materials, and structural design.

Students will develop skills in computer-aided design (CAD), precision measurement, problem-solving, engineering concepts, creativity, and entrepreneurship. This tool also supports cross-curricular learning in math, science, technology, art, and business.

By incorporating this equipment into instruction, students will:

- Gain practical, career-ready technical skills
- Engage in authentic, real-world problem solving
- Increase creativity and innovation through design projects
- Strengthen critical thinking and collaboration
- Develop experience with industry-standard tools and processes

Overall, this shared purchase will improve student learning by making instruction more hands-on, engaging, and aligned to workforce needs, while preparing students for college, careers, and modern design and manufacturing environments