

Rationale

Manufactured products are the result of a deliberate design process. Design lab develops creativity, collaboration and critical-thinking skills needed for career paths in engineering and design.

Course Description

This course provides a general groundwork for best practices within the industrial design field. The student will develop techniques for brainstorming, design development, presentation and problem solving, as well as hands-on creation of student designs/prototypes.

Prerequisites

Prerequisite: Woodworking and Metalworking or Teacher Approval

Course Objectives

The student will practice safety protocols in the technical classroom.

The student will reinforce specific knowledge including measurement, reading and developing plans, and tool use from woodworking and metalworking through practice and reflection in an action-oriented setting.

The student will develop competence and confidence with a set of tools and methods for product design and development.

The student will develop awareness of the role of multiple functions in creating a new product (design, engineering, production).

The student will coordinate multiple, interdisciplinary tasks in order to achieve a common objective.

The student will develop enhanced team working skills.

BOE June 14, 2018