



Curricular Change Proposal

Due by OCTOBER 18, 2021

Proposal to: __ Add ____ Drop __X__ Modify	Grade Level(s): 9-12
Course Name: Introduction to Engineering Design	Prerequisite: Preferred to have CAD.
Course Description: Students will learn the application of the engineering design process. Topics include work-processes, optimization methods, design optimization and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to proposed problems, document their work and communicate solutions. Additionally, students will interpret industry prints and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems.	Course Objectives: <ol style="list-style-type: none"> 1. Work-processes 2. Optimization methods 3. Design Optimization 4. Risk Management
Rationale for Modification/Add: This is a basic level course with no prerequisites. It will be used to build the engineering program.	Impact on Curriculum/Sequencing: This is the first course in the engineering program at Big Walnut High School. This will give students a base for the rest of the engineering program. From this course, students can continue taking principles of engineering, a variety of courses we offer at the high school, or lead them toward the Engineering Program at DACC.
Cost: (Include initial and ongoing): None for Big Walnut LS	Staffing Needs/Changes: No staffing changes.

Department Head _____ Date _____	Principal _____ Date _____
Director of Academic Achievement _____ Date _____	Superintendent _____ Date _____

Curricular Change Process:

- Department discussion and development of course(s).
- Complete the form and submit to administration by OCTOBER 14, 2021 .
- PAC review - considers the impact of the course and cross-curricular connections .
- District and Building Administration consider forms and feedback from PAC when making the final decision - November
- School Board will approve new courses at the second reading November/December
- Approved courses are prepared for course description book and scheduling December
- New information is shared with students and parents in January.