



## Principles of Engineering Curricular Change Proposal

Due by OCTOBER 18, 2021

<b>Proposal to:</b> <u> X </u> Add <u>    </u> Drop <u>    </u> Modify	<b>Grade Level(s):</b> 10-12
<b>Course Name:</b> Principles of Engineering	<b>Prerequisite:</b> Introduction to Engineering Design
<b>Course Description:</b> Develop the conceptual and instructional understanding you'll need to guide students as they explore topics such as mechanisms, strength of structure and materials, and automation and then solve challenges like designing a self-powered car.	<b>Course Objectives:</b> <ol style="list-style-type: none"> <li>1. Careers</li> <li>2. Energy &amp; Power</li> <li>3. Materials &amp; Structure</li> <li>4. Control Systems</li> <li>5. Statistics &amp; Kinematics</li> </ol> <p><b>*Please see course resume attached in email.</b></p>
<b>Rationale for Modification/Add:</b> We would like to add this course to give students the opportunity to pull their skills from previous math and science courses. This will also give students a look into the field of engineering.	<b>Impact on Curriculum/Sequencing:</b> This is the second course in the engineering program at Big Walnut High School. This will build on student's knowledge from Intro to Engineering Design. From this course, students can continue taking a variety of courses we offer at the high school or lead them toward the Engineering Program at DACC.
<b>Cost:</b> (Include initial and ongoing): None for Big Walnut LS	<b>Staffing Needs/Changes:</b> I would add this course to the new satellite Engineering Program at Big Walnut High School. This would be the 2nd course in the program.

Department Head <div style="position: absolute; bottom: 10px; right: 10px;">Date</div>	Principal <div style="position: absolute; bottom: 10px; right: 10px;">Date</div>
Director of Academic Achievement <div style="position: absolute; bottom: 10px; right: 10px;">Date</div>	Superintendent <div style="position: absolute; bottom: 10px; right: 10px;">Date</div>

### 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.