

## INTRODUCTION TO ENGINEERING DESIGN SYLLABUS

Teacher: Mr. Baidel (voicemail) 419-473-8328  
Room Location: CTC 216 (E-mail) rbaidel@wls4kids.org  
Course Length: Year Long Period Fees: \$10

Course Description: This course is a ***Project Lead the Way*** national initiative which provides a pathway for students into the engineering field. Students will learn the design process using computer modeling software. Students will solve design problems as they develop, create, and analyze product models..

### Materials Needed:

- Loose Leaf Notebook Paper
- Mechanical Pencil

### Grading Policy:

Projects/Tests:	50%
Quizzes/Mini Projects :	30%
Homework:	20%

Homework Policy: Homework will be assigned as deemed necessary by the instructor to supplement class work.

### Course Calendar:

The following is a list of topics to be covered which will be introduced and revisited throughout the semester:

- Introduction to Design
- Student Portfolio Development
- Sketching and Visualization
- Geometric Relationships
- Modeling
- Assembly Modeling
- Model Analysis and Verification
- Model Documentation
- Presentation
- Production
- Marketing