



## Project Lead The Way [PLTW] Engineering Design and Development

PEIMS Code: N1303749

Abbreviation: EDD

Grade Level(s): 112

Award of Credit: 1.0

### Approved Innovative Course

- x Districts must have local board approval to implement innovative courses
- x In accordance with Texas Administrative Code (TAC) §74.27, all districts must provide instruction in all essential knowledge and skills identified in this innovative course
- x Innovative courses may only satisfy elective credit toward graduation requirements
- x Please refer to TAC §74.13 for guidance on endorsement

### Course Description:

Engineering Design and Development (EDD) is an open-ended engineering research course in which students work in teams to design and develop an original solution to a defined and justified open-ended problem by applying an engineering design process using the knowledge and skills they developed in previous courses.







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- (A) evaluate and describe their personal contributions and collaboration effectiveness within a team;
  - (B) describe the purpose and positive outcomes of a peer review process;
  - (C) describe the characteristics of effective feedback; and
  - (D) describe the various individual roles and interdependencies of a collaborative team.
- (11) Collaboration. The student manages project timelines and resources as part of an engineering design process. The student is expected to:
- (A) explain the process of project management and the importance of elements such as timelines, schedules, task assignments, and identification and mitigation of potential risks in the effort to complete a project on time;
  - (B) develop a project plan using a project planning tool such as a Gantt chart; and
  - (C) select and use a system of collaborative tools such as cloud





