Engineering Your World I

Engineer Your World I- This class will engage you in authentic engineering practices in a project-based learning (PBL) environment. Learning is scaffolded over a series of engaging and socially relevant explorations and design challenges.
The curriculum focuses on creating a
1) narrative of engineering,
2) building engineering design skills,
3) developing engineering habits of mind, and
4) introducing engineering fields and professions.

Curriculum Series	Duration
Unit 1: Introduction to Engineering	5 days
Unit 2: Designing for Customers- Customer Needs (*Exploration*)	10 days
Unit 3: Discovering Design- Pinhole Camera (*Design Challenge*)	28 days
Unit 4: Understanding Data: Designing Coffee (*Exploration*)	14 days
Unit 5: Designing with Data- Safer Buildings (*Design Challenge*)	35 days
Unit 6: Reverse Engineering (*Design Challenge*)	25 days
Unit 7: Programming- Electronic Music (*Exploration*)	20 days
Unit 8: Systems Engineering- Aerial Imaging (*Design Challenge*)	40 days