

Outline Innovations and Inventions Curriculum

- I. Measurement
 - 1. Customary System

- II. Multi-view Sketching
 - 1. Conveying Ideas
 - 2. Projections

- III. Production Tools and Safety
 - 1. Machines

- IV. Computer Aided Drawings
 - 1. Orthographic
 - 2. Isometric
 - 3. Layout View
 - 4. Assembly

- V. Design Process
 - 1. Environmental Factors
 - 2. Problem Solving Strategies
 - 3. Research and Investigation
 - 4. Modeling and Prototyping
 - 5. Testing and Evaluating
 - 6. Modifications

- VI. Engineering Principles
 - 1. Structural Systems
 - 2. Mechanical Systems
 - 3. Electrical Systems
 - 4. Fluid Systems
 - 5. Energy Systems
 - 6. Technology Systems

- VII. Technological Interactions
 - 1. Cost/Benefit Analysis
 - 2. Patents/Copyrights
 - 3. Impacts

- VIII. Presenting
 - 1. Defining Goals
 - 2. Organizing Content
 - 3. Delivery