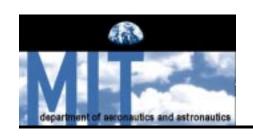


Fall 2003 System Problem Objectives

Learning Objectives:

Students graduating from 16.010/16.020 will be able to:

 Apply discipline specific knowledge from Unified Engineering (Fluids, Materials & Structures, Dynamics, Signals, and Propulsion) to synthesize solutions to CDIO problems and effectively communicate their results.



Fall 2003 System Problem Objectives

Measurable Outcomes:

Students graduating from 16.010/16.020 will be able to:

- 1. Formulate appropriate multi-disciplinary models of engineering systems and identify their assumptions and limitations.
- 2. Plan and conduct experimental investigations, analyze experimental results, and quantify experimental error.
- 3. Use models of engineering systems and experimental investigations to evaluate designs, conduct trade studies, and generate new design solutions.



Fall 2003 System Problem Objectives

Measurable Outcomes:

Students graduating from 16.010/16.020 will be able to:

- 4. Evaluate and explain the effects of engineering in a wider social context including economics, safety, environment, and ethics.
- Communicate engineering results in oral presentations and written reports employing clear organization, proper grammar and dictions, and effective use of graphs, engineering drawings, and sketches.