SYS 53000

PRACTICAL SYSTEMS THINKING

Learn systems concepts and methods, apply them through team projects with real world impact, and develop critical thinking, collaboration, and communication skills to address complex problems.

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Course Content

Engineers, social scientists, and managers often integrate people and technology to equitably solve complex problems, benefiting both society and the environment. While numerous systems concepts and methods exist to tackle such issues, typical courses cover only a fraction. This course exposes students to a variety of systems approaches through readings and lectures, which they then apply to real problems with real impact. It emphasizes critical thinking about the relevance of these methods to real world challenges and the effectiveness of their implementation. Students learn to build strong, interdisciplinary teams and operate efficiently together.

Course Goals

Introduce multiple systems concepts and methods

Emphasize critical thinking about systems concepts and methods

- How they relate to each other
- How they might be applied individually and in combination

PURDUE SYSTEMS COLABORTORY