"Can we design things in such a way that people can use it, and do things we didn't anticipate, without breaking the network?"

— Joi Ito, NMC 12 Keynote
Culture

Students are empowered...
Innovation

...to solve problems they face!
The Problem:

How do I arrange my class schedule?
1. **8.011 - Physics**

- **Instructor:** Guth, Alan
- **Prerequisites:**
- **Category:** H-Level Grad Credit, HASS Elective, Physics 1, Physics 2, Restricted Electives in Science and Technology
- **Sync:**
- **Lab Sections:**
  - MTW10 26-328
  - MTW11 26-328
  - MTW2 26-322
  - MTW3 26-322
  - F10 32-123

Introduces classical mechanics. Space and time: straight-line kinematics; motion in a plane; forces and equilibrium; experimental basis of Newton's laws; particle dynamics; universal gravitation; collisions and conservation laws; work and potential energy; vibrational motion; conservative forces; inertial forces and non-inertial frames; central force motions; rigid bodies and rotational dynamics. Designed for students with previous experience in 8.01; the subject is designated as 8.01 on the transcript.

2. **8.02 - Physics II**

- **Instructor:**
- **Prerequisites:**
- **Category:**
- **Sync:**
- **Lab Sections:**
  - MTW10 26-328
  - MTW11 26-328
  - MTW2 26-322
  - MTW3 26-322
  - F10 32-123

Introduction to electromagnetism and electrostatics: electric charge, Coulomb's law, electric structure of matter; conductors and dielectrics. Concepts of electrostatic field and potential, electrostatic energy. Electric currents, magnetic fields and Ampere's law. Magnetic materials. Time-varying fields and Faraday's law of induction. Basic electric circuits. Electromagnetic waves and Maxwell's equations. Subject taught using the TEAL (Technology Enabled Active Learning) studio format which utilizes small group interaction and current technology to help students develop intuition about, and conceptual models of, physical phenomena.

**Undergraduate**

- **Units:** 3-2-7 + final
- **Your Rating:**
- **No other reviews yet**
The Problem:
Creating my class schedule, optimizing it

The Solution:
CoursePicker, build my schedule
Undergrads use this all the time

MIT Support:
Now, CourseWS course schedule service
Then, screenscraping

*We don’t do this in our LMS
The Problem:

How do I find an undergrad research opportunity, or summer internship?
STEMid is a two-sided platform connecting students to STEM internship providers

Seekers
- College Students
- High School Students
- Recent Graduates

Providers
- Research Institutes
- Companies
- Universities
- Government Agencies
- Startups
The Problem:
Q: How do I find a STEM internship?
A: Go to a million departments, labs, companies

The Solution:
STEMid, national database of STEM internships

MIT Support:
Now, OEIT advising them on next steps
The Problem:

How do I plan my course schedule over my college career?
The Problem:
Planning courses over college career

The Solution:
CourseRoad, drag and drop classes, with checks for pre-req/co-req

MIT Support:
Now, use CourseWS & OEIT supporting student this summer
Encourage a culture of innovation

Students solving student problems!
Start your own program!
iCampus Prize

MIT's student competition supporting innovation that improves living and learning at MIT

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