nanoHUB-U

**INITIATIVE**

With support from NSF, Purdue, and Intel, a team of Purdue faculty and students developed a new approach to provide a conceptual and computational framework design of nanotechnologies to tackle challenges in information processing and storage, energy, the environment, and health care.

The team is led by Mark Lundstrom, Purdue's Scifres Distinguished Professor of Electrical and Computer Engineering and Supriyo Datta, the Thomas Duncan Distinguished Professor of Electrical and Computer Engineering.

The nanoHUB-U team includes faculty in Electrical and Computer Engineering, Mechanical Engineering, Materials Science and Engineering and Physics. nanoHUB-U courses are 5 week modules with supporting quizzes, exercises, tutorials, and exams all posted on nanoHUB-U. The nanoHUB-U initiative is a partnership that involves both experimental platform development and curriculum creation that plays to Purdue's strengths in both the innovative content and the adaptable HUBzero platform.

- Rethinking traditional topics and bringing insights and understanding from nanotechnology research into the engineering curriculum
- Emphasis on nanotechnology fundamentals + plus related technologies
- Designed to “transcend disciplines” and be broadly accessible
- Focus on seniors, beginning grad students, working engineers

**IMPACT**

- Extending the HUBzero open source platform to support online and on-campus education
- Increasing use on-campus in "blended courses"
- 12 courses offered by 11 instructors
- More than 5,500 students:
  - 86 countries represented
  - 700 universities represented
  - 125 companies represented

User Testimonial

“Thanks to your team ... for introducing courses on subjects that are never to be found anywhere - accessible for all students worldwide.

While the concept of MOOC from other platforms...are just catching up... nanoHUB saw it's potential way before others and stands out as a unique one from others for its quality content .. delivery format...above all choice of subject titles. Thanks!”

-nanoHUB-U student in Australia