Engineering Entrepreneurship Education (E³)

The Pennsylvania State University
College of Engineering

Website: http://e-ship.ecsel.psu.edu

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GE Learning Excellence Fund 2000-2002

11/7/01
Background

- Penn State awarded GE Learning Excellence Fund Grant - Dec. 2000: Problem-Based Learning in Entrepreneurship (PBLE) Program

- Goal: leverage GE Funds to launch Engineering Entrepreneurship Minor in College of Engineering. Target approval for Minor: Spring 2002
Mission

- Deliver cross-disciplinary, collaborative, problem-based learning opportunities in entrepreneurship for undergraduate engineering, business and IST students.
Engineering E-ship Minor

- Minor = Core courses (12 credits) + Elective courses (6 credits)
- Minor provides student “cross-training”
  
  *Business students get engineering basics*
  
  *Engineering & IST students get business basics*

- **Key Milestones**
  - In < 8 months from Program award, three new E-ship courses developed and offered in Fall 2001
  - Spring 2002 E-ship courses – already fully enrolled
  - Entrepreneurs co-teaching with Eng. faculty
Core Courses (12 credits)

- ENTR430 E-ship & New Product Development
- ENGR407 Technology E-ship
- ENGR497D Entrepreneurial Leadership
- ENGR497G E-ship Business Basics
- QMM492 – Intro. to Engineering Design Principles

Technology Entrepreneurs & Industry

Business & Engineering Faculty

For business students

For Eng. & IST students
Fall 2001 Enrollment

Core courses:

- ENGR497G - Business Basics          30
- ENGR497D - Entrep. Leadership        12
- ENGR407* - Tech. Entrepreneurship   55
  (2 sections)
- FYS – Eng. Entrepreneurship         20

Total: 117

*Also core in ELDM and Product Realization Minor

Fall Faculty: 4 from Smeal College Of Bus. Admin.
5 from College of Engineering