

# Overview of Information Technology in the College of Engineering

Fall 2007  
Paul Killey  
Executive Director of IT and CAEN  
paul@umich.edu  
936-3565

1

## Range of Technology Sources on Campus

- The University of Michigan is a decentralized environment and resources exist at many different levels:
  - Campus-wide
  - College
  - Department
  - Research group or lab
- Both you and the students you are teaching are in this environment.

2

## CoE Office of Information Technology

- Provides a structure to allow the College to effectively organize IT efforts and activities and align them with strategic goals
  - Serves as a point of coordination for campus-wide activities
  - Assists in planning and deployment of College resources
  - Coordinates with departmental activities

3

## The Composition of the Office of Information Technology

- CAEN (Computer Aided Engineering Network)
- Office of Instructional Technology
- Web Services
- Partnering / Coordination Role
  - Center for Advanced Computing
  - Departmental Computing
  - Facilities
  - Other Units on Campus
  - Vendors

4

## CAEN Provides ...

- Data Network
- Software Library
- Student Computing Labs
- Storage
- Services and infrastructure
- “Hotline”
- Service Center

## Software Applications

- Electrical and Mechanical CAD
- Analysis and Simulation
- Mathematics
- Statistics and Optimization
- Graphics and Visualization
- Programming Languages
- Productivity Software

## Support for Instruction

- Lab reservations
- Software availability
- Course Directories
- Application Sector Support
- Technology-equipped classrooms
- Use of technology in the classrooms

## Student Access to CAEN Resources

- “CAEN Accounts” allow people to log in and access CAEN-provided resources.
  - Eligibility requirements
  - More information at <http://www.engin.umich.edu/caen/accounts/>
- Other campus resources for students enrolled in CoE courses.
  - Duderstadt Center
  - ITCS

## Printing

- There used to be course packs.
- Now there are PDF and other files on Ctools and elsewhere on the web that students have to print themselves.
- Copyright clearances and other usage rights.
- The cost of printing.

## Email to CoE Students

- “Engineering College Students” are not the same as “Students Taking Courses in the College of Engineering.”
- [coe-students@umich.edu](mailto:coe-students@umich.edu) addresses the former and not the latter.

## Campus Resources For Teaching and Learning

- CTools
  - <http://ctools.umich.edu>
- Faculty Exploratory
  - <http://www.lib.umich.edu/exploratory/>
- UM Teaching and Technology Collaborative
  - <http://www.umich.edu/~teachtec/>
- CRLT
  - <http://www.crlt.umich.edu/>

11

## Instructional Technology in the College of Engineering

Phil Treib

Director of Instructional Technology

[treib@umich.edu](mailto:treib@umich.edu)

936-2310

12

# Instructional Technology

- Support and facilitate the faculty adoption of technologies to enhance teaching and learning
  - Enhance the ease of use and reliability of classrooms and other learning spaces
  - Assess, select and deploy new technology
  - Provide consulting in this and related areas
- Collaborative environments
- “Distance learning”
- Lecture “Capture” (Recording)

13

# Support

- In Classrooms
  - Using installed equipment and technology
  - Request new equipment or improvements
  - Problem response
- One-on-One Consulting
  - Develop familiarity with technology choices
  - Help design appropriate technology use
- Product evaluation and demonstrations

14

## Contact Info

- Phil Treib  
936-2310  
[treib@umich.edu](mailto:treib@umich.edu)  
2335A Duderstadt Center
- Website:  
<http://www.engin.umich.edu/teaching/tech>

## Contact Information

- CAEN
  - [www.engin.umich.edu/caen](http://www.engin.umich.edu/caen)
  - 764-CAEN (voice mail menu)
  - CAEN Hotline (1315 DC, 763-5041)
  - CAEN Office (2318 DC, 615-4321)



## Contact Information

Paul Killey	Exec Dir of IT	<a href="mailto:paul@umich.edu">paul@umich.edu</a> 936-3565
Mark Giuffrida	Director of CAEN	<a href="mailto:markg@umich.edu">markg@umich.edu</a> 936-1825
Amadi Nwankpa	Faculty Liaison	<a href="mailto:amadi@umich.edu">amadi@umich.edu</a> 763-6812
Phil Treib	Instructional Technology	<a href="mailto:treib@umich.edu">treib@umich.edu</a> 936-2310