Overview of Information Technology in the College of Engineering

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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.
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

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
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 addresses the former and not the latter.
Campus Resources For Teaching and Learning

- CTools
  - [http://ctools.umich.edu](http://ctools.umich.edu)
- Faculty Exploratory
  - [http://www.lib.umich.edu/exploratory/](http://www.lib.umich.edu/exploratory/)
- UM Teaching and Technology Collaborative
  - [http://www.umich.edu/~teachtec/](http://www.umich.edu/~teachtec/)
- CRLT
  - [http://www.crlt.umich.edu/](http://www.crlt.umich.edu/)

Instructional Technology in the College of Engineering

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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)

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
Contact Info

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  2335A Duderstadt Center

• Website:
  http://www.engin.umich.edu/teaching/tech

Contact Information

• CAEN
  • www.engin.umich.edu/caen
  • 764-CAEN (voice mail menu)
  • CAEN Hotline (1315 DC, 763-5041)
  • CAEN Office (2318 DC, 615-4321)
## Contact Information

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