Institute of Technology Labs

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Computing and Networking
http://tinyurl.com/uwtlabs
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Agenda

- Lab Types and Locations
- Access to Physical Labs and Computers
- Virtual Computing Labs
- Pseudo-Labs (JOY 001/009/205)
- Staff Responsibilities
- Resources
Lab Types and Locations

• Institute of Technology Labs
  – General Development/Use: DOU 110; and SCI 106/108 (24x7)
  – Teaching and Research (24x7, co-managed with faculty)
    • Embedded Computing Systems (ECS): CP 206D
    • Information Assurance & Networking (IAN): CP 206H
    • Computer Engineering Projects (CEP): SCI 113
    • Engineering Research (ER): CP 206I
    • Advanced Engineering (AE): TPS 202
    • Power (P): TPS 302

• Campus Labs: UWT IT Dept.
  – General: WG 108
  – Multimedia Lab: CP 005

• Campus Classrooms: UWT IT & Institute – Pseudo-labs
  – JOY 001, 009 and JOY 205
Access to Physical Labs & Computers

• Key card access to our labs
  – All students: general development labs
  – Faculty designate access to Teaching and Research Labs

• Institute Login accounts
  – INSTTECH is the domain where accounts reside
    • u.washington.edu is allowed as well
  – Login: uwnetid@u.washington.edu
  – Password: same as MyUW

• Campus lab/classroom login accounts
  – UWTACOMA is the domain where accounts reside
    • Login: UWTACOMA\uwnetid
    • Initial password for students: student id minus leading zeroes
    • Initial password for faculty: to be provided
Virtual Computing Labs (VCL)

- VCL: collection of private clouds of varying capacities
  - virtual machines and networks hosted on powerful servers
- Virtual machines (VMs)
  - Predefined for individual student/faculty or class use
    - OS and apps may be pre-installed, or students may be asked to do so
  - Available on per-quarter basis
  - Accessed via the real network from anywhere
    - Keystrokes and mouse activity sent to VM
    - Changes to display of VM seen in a window
- VMs and virtual network
  - Usually defined by faculty for course use
  - Can be managed by student
    - Easiest is via Windows, due to special manage_vc app
- Also used for software restricted to UW-owned equipment
Pseudo-Labs (JOY 001/009/205)

• Mostly used by Information Technology program
  – Maintained and controlled by UWT IT dept.
  – Institute defines software installed
    • Often, identical to that installed in Institute labs or VCL

• Students:
  – Do not get key card access
  – Cannot use rooms 24x7, as they can with most labs

• Institute gets priority over scheduling rooms, but other programs and departments may use
Staff Responsibilities

• Institute staff
  – Don McLane/Bob Landowski/Chris Barrett
    • Handle CES/EE program activities in related labs
  – Stephen Rondeau
    • Maintains computers and networks in all labs
      – Installs and configures software on lab computers
      – Does not maintain faculty computers: email tachelp@uw.edu
    • Maintains lab infrastructure servers
    • Purchases hardware/software for all labs
      – Does not purchase for faculty office use: see Joel Larson

• UWT IT Staff: JOY 001/009/205
  – Keiji Oka via tachelp@uw.edu
Resources

• Faculty information for classroom/office/labs:
  – http://tinyurl.com/uwtiotfac

• Lab web pages:
  – http://css.insttech.washington.edu/~lab