IT Virtual Labs: Win-Win for Students and Colleges

Innovations 2016

Ann Beheler
John Sands
Bill Wolfe
Extra $$$ for hardware?
All GOOD reasons for using virtual labs
Moraine Valley Community College and Collin College use NDG’s NETLAB+ to provide virtual labs for its students.

Some labs created through NISGTC DOL grant.
NETLAB+ requires one set of high-end hardware
Lab Pods create by NISGTC

- Forensics
- Cyber Security
- Security+
- Geospatial Technologies
- Linux+
- Network
- Ethical Hacking
- A+
More Lab Pods from NDG

- ISMv2
- ICM
- NetApp
- XenApp 6.5
- VMware vSphere 5.5
- View ICM
Build Custom Labs

Pod Design Guide

Lab Design Guide

General IT Use Pods
Competitions
Benefits

• For Students:
  o Access from Any Where at Any Time
  o More classes can be offered
  o Most labs can be reset with little effort
  o Participation in Competitions
Benefits

• *For Administration:*
  - Reduced support for devices in classrooms
  - No imaging necessary for classroom PCs
  - Classrooms no longer dedicated to networking
  - Reduced expense for hardware
  - Highly scalable in a very stable environment
  - Sandbox approach protects network from damage by students
Benefits

• *For Instructors:*
  o Better control over labs in classroom & online
  o Easier set of complex labs
  o Ability to help students solve problems
  o Faculty development at their convenience
  o Hands-on exams and/or case studies can be added to class
Demonstration of NETLAB+
Free Courseware

http://nter.collin.edu
### Some of Courses on NTER

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<tr>
<td>Android Programming with Java</td>
<td>iPad/iPhone Programming I</td>
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<td>Cloud Essentials</td>
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<td>Data Acquisition &amp; Management</td>
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<td>Help Desk</td>
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<td>Introduction to Geographic Science</td>
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<td>Introduction to Geospatial Technology</td>
<td>Windows Operating System 1</td>
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Questions?
Contact Information

Ann Beheler  
abeherel@collin.edu

John Sands  
sands@morainevalley.edu

http://nisgtc.org for historical record

Free Courseware  
http://nter.collin.edu  
www.skillscommons.org

Network Development Group (NDG)  
http://www.netdevgroup.com

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