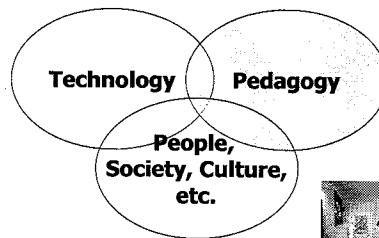


E-Learning: It's about Nature (technology) AND Nurture (pedagogy)

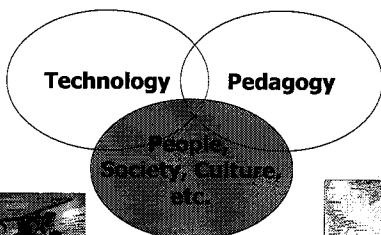
Curt Bonk, Professor, Indiana University
 President, SurveyShare, Inc.
 cjbonk@indiana.edu
<http://php.indiana.edu/~cjbonk>
<http://SurveyShare.com>



Nature and Nurture: An Interactional Model



Nature and Nurture: An Interactional Model



Poll #1. What are you???

- A. Teacher, instructor, teacher assistant
- B. Counselor, school psychologist
- C. Curriculum specialist, developer
- D. Instructional designer, technology specialist, multimedia developer
- E. School administrator, principal, head
- F. Government official, policy thinker
- G. Student
- H. Other

Poll #2:

Raise your hands if you are a digital native (grew up with a computer at home).



Poll #3:

What age learners are you interested in?

- a. Ages 1-5
- b. Ages 6-10
- c. Ages 11-15
- d. Ages 16-20
- e. Ages 21+

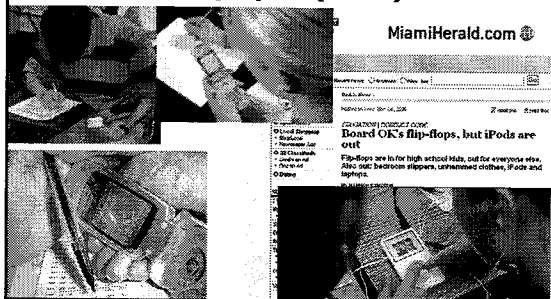


**Poll #4:
What age learners is online
education growing the most in KL?**

- a. Ages 1-5
- b. Ages 6-10
- c. Ages 11-15
- d. Ages 16-20
- e. Ages 21+



**Poll #5:
Should kids be allowed to bring mobile
phones, MP3 players (iPods) to school?**



**E-learning + Scotland = Major success,
May 21, 2006**

<http://www.sundayherald.com/55719>

In this vision of the future, every school will have a web portal where the pupils, parents and teaching staff will have the opportunity to interact and share information. In this virtual space, lessons will be beamed direct to anyone who wants to attend, while all the teaching materials required can be downloaded in a trice. Video conferencing will facilitate group interaction while scholars from Tokyo to Tomintoul (Scotland) will log on to their personalised home pages to upload course work, view their marks or receive news about the wider school community."

**E-learning + Scotland = Major success,
May 21, 2006**

<http://www.sundayherald.com/55719>

However... "SCHOOLS and colleges are not renewing their IT equipment fast enough to keep up with changing technology, according to the British Education Communications and Technology Agency (Becta)."

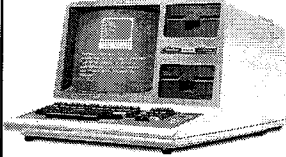
**Brainstorm #1:
What technologies hold the most
promise in Malaysian schools today?**



I'm a librarian



Technology of the 1980s



Radio Shack TRS-80 Model III

Introduced: July 1980
 Price: US \$999 base model
 US \$2495 w/ 32K, dual drives.
 CPU: Zilog Z-80, 2.03 MHz
 RAM: 4K, 48K max.
 Ports: Cassette tape, expansion, serial
 Display: 12-inch BW monitor: 64 X 16 text
 Storage: 0, 1, or 2 internal 176K floppy drives
 External cassette @ 500 / 1500 baud
 OS: BASIC in ROM, TRS-DOS on disk

Technology of the 1980s



NEWS
 Several give out iPads to education students

Entice Students with Technology Giveaways

Motorola Droid 2, SONY
 College of Agriculture and Technology at Maryland
 The school gives 20 iPads to 20 students as a reward for their achievement in the school.

Gateway M275 tablet PC, Winona State University, Mayville State University
 The schools will provide the tablet computers to full-time students who do not have laptops from previous programs.

BlackBerry 7310 PDA, University of Maryland
 The school has been handing out the wireless personal digital assistants to faculty and more than 1000 full-time graduate students in the Smith School of Business.

The Growth of Online Learning

Thursday, April 22, 2009

More students pursue degrees online
 Enrollment up 16.2% in '08, but without major program changes, efforts better experience

UMaine
 UMaine's enrollment rose 16.2% in August from the University of Maryland's University College, part of a dual-degree degree plan in partnership. She has seven years of experience, but never with a classroom and has decided not to attend UMaine's campus only once. Long after she had enrolled in the online program, the 20-year-old graduate student had been working from home.

Peak Consulting, an educational consulting group, estimates:

- 1 million American high school students are currently taking Internet courses in 2004-05
- 571,000 in 2003
- 378,000 in 2002
- More students log on to learn, Boston.com, Peter Schworm, September 16, 2004.

No Child Left Behind Summit, e-Learning and Students Today: Options for No Child Left Behind

Susan Patrick, Director, Office of Educational Technology, U.S. Department of Education
http://www.ncibtechsummits.org/summit2/presentations/p_Patrick.pdf

- **Reasons:** Rural, medical, disabilities, at risk, work, sport, poverty, AP, supplement, catch up, summer, etc.
- **Types:** Virtual charter schools, State run schools, District run, University run.

North Central Regional Educational Laboratory
 Colorado Department of Education • Illinois Virtual High School • Wisconsin Virtual School

LEARNING POINT
 1120 East Dahl Road, Suite 200
 Naperville, IL 60563-1486
 870-352-2725 • 435-447-6450
 www.ncrel.org

KEEPING PACE WITH K-12 ONLINE LEARNING A Snapshot of State-Level Policy and Practice

STATE	STATEWIDE PROGRAM	ONLINE PROGRAM ACTIVITY	POLICY
California	Yes	Moderate	Extensive
Colorado	Yes	High	Minimal
Florida	Yes	Moderate	Moderate
Idaho	Yes	Low	Moderate
Illinois	Yes	None	Minimal
Michigan	Yes	Low	Minimal
Minnesota	No	Moderate	Extensive
Ohio	No	High	Moderate
Pennsylvania	No	High	Moderate
Texas	No	Moderate	Moderate
Wisconsin	Yes	Moderate	Minimal

May 2004, http://www.ncrel.org/tech/pace/Keeping_Pace.pdf

NACOL
 North American Council for Online Learning

Online teaching and learning has the potential to transform education. NACOL offers a membership network that has the potential to transform learning by providing resources, expertise, and technical assistance.

NACOL offers state-of-the-art research and analysis of learning environments, digital content, and leadership in K-12 policy, practice, and learning.

Join Now

Volunteer!

Search the NACOL Online Learning Directories

NEW NACOL Journal: Professional Development, Assessment, Policy, and Leadership Announcements!

NACOL to host the Virtual School Symposium in 2004

The List of Conferences Continues to Grow... Check out the Forum Calendar, Bulletin or Calendar!

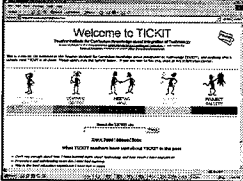
The Georgia List of NACOL Members

Virtual Schools Forum Report by the Center for Digital Education and the U.S. Department of Education

Conference Agenda, Schedule, and Abstracts Documents

Virtual Schools Institute Proceedings (PDF file)

Teacher Professional Development in Technology Integration (the TICKIT Program)
 (Bonk, Ehman, & Yamagata-Lynch, in press, AACE Journal)
<http://www.iub.edu/~tickit>



TICKIT: Teacher Institute for Curriculum Knowledge about Integration of Technology

A Concept Paper on Funding State Sponsored E-Learning Programs
 Daniel W. Schultz and Jamey Fitzpatrick
 Michigan Virtual University, January 2004

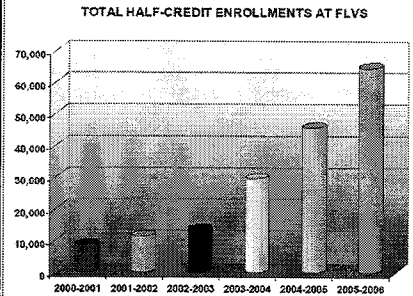
Table 1: State Sponsored Virtual High School Enrollment Growth

K-12 Virtual Initiative	Launch Year	Launch Year Enrollment	Enrollments in 2002/03	Avg. Annual Enrollment Growth
Florida Virtual High	1997	77	10,000	165%
Illinois Virtual High School	2001	409	1,232	201%
West Virginia Virtual High School	2000	300	1,200	100%
E-School (Hawaii)	1997	96	500	39%
Michigan Virtual High School	2000	77	7,282	125%

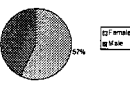

Source: School data and Eduventures research, September 2003

Julie E. Young, Executive Director, Florida Virtual School (July, 2006)

TOTAL HALF-CREDIT ENROLLMENTS AT FLVS



FLVS Students (2001-02)

Florida Virtual School (FLVS) is an established leader in developing and providing virtual K-12 education solutions to students throughout the country. A nationally recognized e-Learning model, FLVS was founded in 1997 was the country's first state-wide Internet-based public high school. Today, FLVS serves middle and high school students with more than 80 courses.


VirtualSchool
Any time, any place, any path, any pace™

FLVS Logo FLVS School Data

Enrollments by Gender (2005-06)
Female 59%
Male 41%

Enrollments by Race (2005-06)
White Non-Hispanic 68%
Hispanic 13%
African-American 8%
Asian 4%
Multi-Ethnic 4%
Other 3%

FLVS Enrollment Participation by School Type (2005-06)
Public and Charter 64%
Home School 28%
Private 8%



VirtualSchool
Any time, any place, any path, any pace™

FLVS Logo FLVS School Data

- 174 FLVS full-time and 106 adjunct teachers
- 80 Courses (from GED to 10 advanced placement courses)
- 31,000 students in 65,000 half-credit courses (2005-2006)
- Courses are delivered over the Internet. To assure student success with virtual learning, a variety of web-based, technology-based and traditional resources are provided. Teachers communicate with students and parents on a regular basis via phone, email, online chats, instant messaging, and discussion forums.
- http://www.flvs.net/educators/annual_external_evaluations.php

Virtual School Leaders Encourage Growth of K-12 Online Learning; Discuss High School Reform at Regional Summit (June 26, 2006)
<http://sev.prnewswire.com/education/20060626/NYM25126062006-1.html>

- "We know firsthand that demand for virtual education is growing," said FLVS President & CEO Julie Young. "For the past five years, we have seen double-digit growth at FLVS."

MICHIGAN VIRTUAL UNIVERSITY

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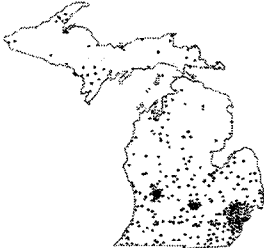


by the state of MICHIGAN
EXPLORER MOIS

Michigan's first state to require Online Learning
Michigan's first state to require Financial Responsibility National Making it Happen Award

© 2006 Michigan Virtual University

Report of the Michigan Dept of Ed on the Development and Growth of the Michigan Virtual High School (1999-2005); April 13, 2005

Figure 2 Map of Participating MVHS School Buildings (2003-04)

Fond du Lac High, Wisconsin (March 10, 2006)


Posted March 10, 2006

Open enrollment popularity grows

By Sharon Retnik
The Reporter
strozniek@firereporter.com

One of Jamie and Kathy Makewitz's three children didn't fit in at Fond du Lac High School — known as having one of the largest enrollments in the state, about 2,400 students.

"We opted for school choice with Kaitie. She's now a senior at Oakfield High School, plays varsity soccer and loves the atmosphere at a small school," Kaitie said.



Though Wisconsin's open enrollment period — Feb. 8 to 24 this year — parents were able to choose which public school system in the state they wanted their children to attend.

A student helper Thursday awaits Highway 175 in the parking school bus just south of Bygon in urban Fond du Lac County, *Patricia Probst*

50,000 Utah Students Earning High School Credits Online!

(June 20, 2006)

Utah's online Electronic High School leads the nation in student enrollment

By Tiffany Erickson
Guest Columnist

More than 50,000 Utah students are earning high school credit from their bedrooms, cars, and kitchens. And though the Electronic High School may not be the easiest way to earn credits, students are flocking to the program to catch up on classes, graduate early or just fit a few more electives into their school days.


Currently Utah has the largest online learning program in the country. Florida is a distant second with just over 20,000 enrolled.

Richard Siddens, principal of the Electronic High School, said Utah had a jump on the rest of the nation in establishing the program. Utah's other states started creating online courses in the late '90s, the program debuted in Utah in 1993 - before Hercules, Explorer and other innovations.

Students back then used the transfer protocol.

"There was a great deal of skepticism when we began that we were going to be a diploma mill," Siddens says. "But what they learned that courses were equally rigorous or more so just went away - from public skepticism to finally embracing it."

The program has doubled each year since 2000, the year officials established a 60-90



University of Miami Online High School

attend high school online, anytime, anywhere.

UNIVERSITY OF MIAMI ONLINE HIGH SCHOOL
Programs To Fit Each Student's Needs

University of Miami Online High School offers college and career-ready programs for all students in grades 9 through 12. Over 100 courses, 100% online, personalized. Multiple sessions available. One-to-one. Proven online high school performance. 24-hour support. 24/7 learning. 24/7 support. 24/7 support. 24/7 support.


Watch the UMOSHS Video! [Click Here To Watch the Video](#)

Complete College Counseling! [Click Here To Contact Us](#)

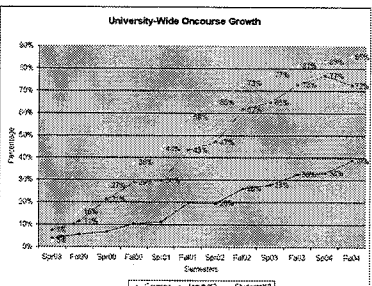


Indiana Univ (8 campuses): Spring 2005

Students: 89,413 loaded; 78,549 logged in (88%)
Faculty: 7,014 loaded; 5,441 logged in (78%)
Courses: 22,419 loaded; 9,206 active (41%)



University-Wide Oncourse Growth

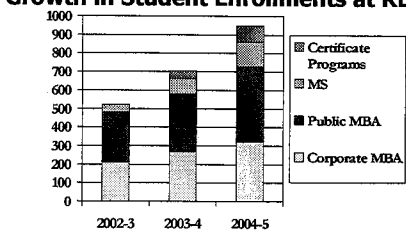


Legend: Courses (solid line), Faculty (dashed line), Students (dotted line)

Kelley Direct Online Programs


Indiana University Kelley School of Business

Growth in Student Enrollments at KD



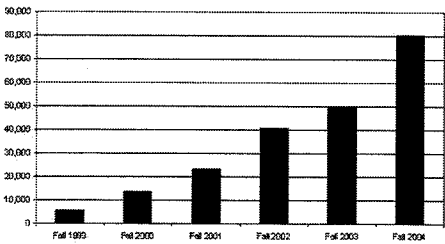
Legend: Certificate Programs (white), MS (grey), Public MBA (black), Corporate MBA (light grey)

KELLEY School of Business
KD.IU.EDU
Indiana University Kelley School of Business



Illinois Virtual Campus

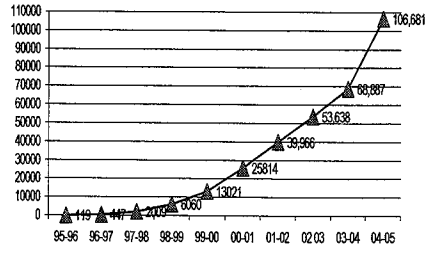
Enrollment in online classes tops 80,000 for Fall 2004 semester



http://www.ivc.illinois.edu/pubs/enrollment/Fall_04.html

SUNY Learning Network (SLN)

Online course enrollments



<http://sln.suny.edu/>

