

School of Education
Educational Technology Committee

Educational Technology Desires Survey Analysis

During spring semester 2001, the School of Education's Educational Technology Committee surveyed the full-time faculty regarding instructional technology needs. The survey instrument (Table 1) was designed to encourage faculty to "think idealistically," rather than "think realistically." The committee wanted to give faculty a chance to dream big dreams before waking up to the real world of state university finances. The committee also hoped that common themes and priorities would emerge that would coalesce into a shared vision of technologically-mediated instruction for the School of Education.

About half of the full-time faculty (32/59) in the five departments with professional education programs returned the form. Table 2 summarizes the full range of items mentioned by faculty responding to the survey. Themes that emerged included:

- It is very important to create a sufficient number of technologically sophisticated classrooms that mimic the P-12 environment and are regularly available to School of Education faculty, so that faculty can model effective practice in preservice courses.
- The physical setup for instruction should most often include (A) a networked instructor's computer station with laptop/LCD/Elmo projection and internet access and (B) 8-12 candidate computer work stations with networked color printers, scanner, all with discipline specific software. Candidate stations should be equipped with shared peripherals (printers, scanner, C burner, etc).
- Up-to-date computers for faculty in their offices are necessary to deliver effective computer-based instruction.
- Content specific software licenses with candidate computer access are needed across the School of Education.
- "Old" or "small" technologies – wall-mounted large TV/VCRs, cassette players, conventional and digital video camcorders, digital cameras, printers, scanners, PDAs – are important for whole and small group activities with candidates.
- The capability to do real-time videoconferencing would be highly useful to faculty and candidates in C&I and Ed Administration, and perhaps other departments as well.
- CPS and Technology need specialized software; Technology needs hardware support for technology content course laboratories.
- Appropriate comfortable adult-sized furniture is needed for Poucher and Park computer-intensive classrooms.
- Predictable budget allocations must support the purchase of necessary consumables (printer cartridges, color transparencies).
- Predictable budget allocations must support the replacement of instructional computers in SOE classrooms and faculty offices.

The next step is to prioritize these items, identify source(s) of funding, and plan collaboratively actions as a School of Education to meet these needs.

Table 1. Sample Survey Instrument

School of Education
Educational Technology Committee
Educational Technology Desires Survey

Name _____ Department _____

Primary teaching responsibilities: undergraduate graduate both

We are asking the following questions to find out what your classroom/teaching area needs are for educational technology (computers, software, printers, projectors, smart carts, digital cameras, etc.).

1. How would you use cutting edge educational technology to deliver your course or program?

2. If you had an unlimited, externally funded budget for educational technology, what specific items would you want to purchase? Please include amounts of items that you would like. Include prices only on specialty items or software.

Please return to your department representative by 4/2/01. Thank you for your input.

Ed Ad—S. Gilmour, C&I—M. Burrell, CPS—M. LeBlanc, HPE—D. Drews, Technology—R. Bush, VTP—P. Martin

Table 2. Actual Survey Responses, Spring 2001

**C&I – Childhood, adolescence, literacy,
TESOL, & special education
programs**

1. 2-way live interactive videoconferencing with large screen projection (hardware, software)
 2. Classroom on the BOCES fiber optic network for 2-way conferencing within the county
 3. Lots more bandwidth to support instructional and academic needs 24/7
 4. More reliable college internet connection – current system is down enough to be an instructional disincentive
 5. Desktop to desktop videoconferencing capability (hardware, software)
 6. Literacy software
 7. Language/speech video clips (with projection equipment)
 8. Data analysis software available to students (SPSS, Nudist, Envivo)
 9. Science software
 10. Science laboratory hardware for computer interfacing
 11. Multimedia software – Hyperstudio, Photoshop, Director, Adobe Premier, Visual Effects, etc
 12. Multimedia workstations with scanners, hardware compressors to complete projects and portfolios
 13. Updated video library
 14. High resolution projectors/speakers mounted in all classrooms, connected to video system for better whole-class viewing
 15. Cassette player with amplifier for use in large classrooms
 16. More digital cameras available
 17. Digital/video camcorders available with equipment to provide candidates with usable copies
 18. More PDAs available for faculty/office use
 19. PDAs for candidate use
 20. TV/VCR permanently in technologically sophisticated rooms
 21. LCD projection/laptop station in all classrooms we use
 22. Faculty need up-to-date computers/color printers (with print cartridges) in their offices to prepare technologically sophisticated instruction
 23. More technologically sophisticated classrooms to support needs of all faculty (e.g., smart cart/elmo station for instructor, 12 computers with internet connection for simultaneous paired candidate use) to mimic school classrooms
 24. Backup computers for candidate workstations
 25. Replacement for aging Goals 2000 computer stations – computers in Poucher (and other?) labs are old, slow, no zip/DVD capability, not all networked to printers, etc
 26. Laptops for everyone with docking stations in offices and classrooms
 27. Sets of equipment for candidates to borrow to use for class projects and field placement instruction (digital cameras, class sets of calculators, etc)
 28. Budget for consumables to support technologically sophisticated instruction – black/color printer cartridges, color overhead transparency film, zipdisks, recordable CD blanks, etc
 29. Roving technology support person
 30. Current computer-equipped classrooms are dirty – custodians are afraid or untrained to clean
 31. Appropriate comfortable usable adult furniture
-

Table 2. Actual Survey Responses, Spring 2001 (Continued)

CPS – School counseling and psychology programs	TEC – Technology education and technology management programs
32. Budget for specialized software (career, statistical, testing) 33. Dedicated computers in Mahar with specialized software available to candidates 34. Elmo and smart cart dedicated to department use	45. At least 3 computer/scanner/printer stations for technical writing program with MS Publisher 46. Printer that will accept 11x17 paper 47. 253 Wilber -- update microcomputer applications lab with 10 new windows and 12 new macs, 4 digital cameras, and software for both (MS office, Photoshop, AutoCAD, iMovie, iToons)
EAD – School administration programs	48. AutoCAD and MasterCam software 49. Video/computer projector (1000 lumens) 50. Video production unit 51. Projection board 52. Elmo 53. Video cameras 54. Digital cameras 55. All teaching podiums should be on network and web
35. Capability for interactive real time videoconferencing 36. Capability for putting creating and storing electronic candidate portfolios 37. Capability to show videos on the internet 38. Faculty laptops and PDAs 39. Voice to print software 40. Laminator	56. All labs should have ceiling mounted 36” TV/VCR/DVD 57. Software budget 58. Decent building cable 59. Laser printer for the construction lab computers 60. Updated computers for faculty to prepare instruction
VTP – Vocational education programs	61. State-of-the-art computer presentation cart consoles (internet connection, white board and object capture capability, big screen TV/VCR/DVD, good sound and video connections in/out) 62. Program that requires/encourages candidates to purchase laptops with software used by department 63. CADD programs on six classroom computer work stations with shared peripherals 64. Printers, & plotters 65. Studio photo area 66. Increase tech support 67. Plan to replace technology as it ages
41. Test/assessment, gradebook software for candidate exploration 42. Smart cart for department that would go in any classroom 43. Appropriate furniture 44. All classrooms (or at least one) furnished with smart instructor station with candidate workstations with vocational software	

68. Appropriate furniture