

Tablet PC Initiative Post-Survey
Instruments and data summary

May 2004

Chris Clark<chris.clark@nd.edu>
Kaneb Center for Teaching and Learning
University of Notre Dame
(574) 631-7434

Tablet PC Study – Post-Survey

Name _____

How often did you use your Tablet PC at home and work this past academic year?

- | | |
|---|--|
| <input type="checkbox"/> Not at all | <input type="checkbox"/> One to three hours daily |
| <input type="checkbox"/> Less than one hour daily | <input type="checkbox"/> More than three hours daily |

How often did you use your tablet PC **in the classroom** this year?

- | | |
|---|---|
| <input type="checkbox"/> Not at all | <input type="checkbox"/> Once a week |
| <input type="checkbox"/> A few times a semester | <input type="checkbox"/> In every class |

How likely are you to recommend that your colleagues use a Tablet PC in the classroom?

- | | |
|--|--|
| <input type="checkbox"/> Not at all likely | <input type="checkbox"/> Somewhat likely |
| <input type="checkbox"/> Not very likely | <input type="checkbox"/> Very likely |

For what tasks did you use your Tablet PC in the classroom?

What did you consider the **most effective** uses of your Tablet PC in the classroom?

Which classroom tasks were **simpler or easier** when using your Tablet PC?

What **challenges or obstacles** did your Tablet PC present in the classroom?

Tablet PC Study – Usage Survey

Part 1. Course-related strategies – for each of the following, how often did you use a Tablet PC during a class or in a course-related activity (planning, grading, etc.)?

Please CIRCLE: 4 = every day, 3 = once a week, 2 = some times, 1 = one time, 0 = never

- | | | | | | |
|---|---|---|---|---|---|
| 4 | 3 | 2 | 1 | 0 | 1. Assignment markup – adding comments “on top of” student work, using <i>Word</i> or <i>Journal</i> |
| 4 | 3 | 2 | 1 | 0 | 2. Live annotation – adding notes to an in-class presentation, e.g. with <i>PowerPoint</i> |
| 4 | 3 | 2 | 1 | 0 | 3. Fill-out forms – checking boxes or filling in blanks on a document in <i>Journal</i> or <i>Word</i> |
| 4 | 3 | 2 | 1 | 0 | 4. Note-taking – during a class |
| 4 | 3 | 2 | 1 | 0 | 5. Drawing – illustrating a concept or topic, using drawing software or <i>PowerPoint</i> tools |
| 4 | 3 | 2 | 1 | 0 | 6. Multimedia library – storing images, music, or text on the tablet for use in class |
| 4 | 3 | 2 | 1 | 0 | 7. Wireless presentation – projecting the tablet screen while walking around the classroom |
| 4 | 3 | 2 | 1 | 0 | 8. Student files – saving student work for grading or later reference. |
| 4 | 3 | 2 | 1 | 0 | 9. Handoff to student – handing the tablet to a student to answer a question or present a topic |
| 4 | 3 | 2 | 1 | 0 | 10. Data collection – recording scientific data or student observations “live” |
| 4 | 3 | 2 | 1 | 0 | 11. Email – sending feedback to students during class |
| 4 | 3 | 2 | 1 | 0 | 12. Other – |
| 4 | 3 | 2 | 1 | 0 | 13. Other – |
| 4 | 3 | 2 | 1 | 0 | 14. Other – |
| 4 | 3 | 2 | 1 | 0 | 15. Other – |

Tablet PC Study – Usage Survey

Part 2. Software – how often did you use the following software on your Tablet PC during a class or in course-related activities?

Please CIRCLE: 4 = every day, 3 = once a week, 2 = some times, 1 = one time, 0 = never

- | | | | | | |
|---|---|---|---|---|--|
| 4 | 3 | 2 | 1 | 0 | 16. <i>Windows Journal</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 17. <i>OneNote</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 18. <i>PowerPoint</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 19. <i>Word</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 20. <i>Excel</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 21. <i>Internet Explorer</i> (Microsoft) |
| 4 | 3 | 2 | 1 | 0 | 22. <i>NetSupport</i> – for wireless presentation |
| 4 | 3 | 2 | 1 | 0 | 23. <i>Acrobat</i> (Adobe) |
| 4 | 3 | 2 | 1 | 0 | 24. <i>TurboCAD, Illustrator</i> , or other drawing/CAD software |
| 4 | 3 | 2 | 1 | 0 | 25. <i>iTunes</i> (Apple) |
| 4 | 3 | 2 | 1 | 0 | 26. Other – |
| 4 | 3 | 2 | 1 | 0 | 27. Other – |
| 4 | 3 | 2 | 1 | 0 | 28. Other – |
| 4 | 3 | 2 | 1 | 0 | 29. Other – |
| 4 | 3 | 2 | 1 | 0 | 30. Other – |

Tablet PC Study - Post-Survey

How often did you use your Tablet PC at home and work this past academic year?

Not at all	0	0%
Less than one hour daily	0	0%
One to three hours daily	7	47%
More than three hours daily	8	53%

How often did you use your tablet PC in the classroom this year?

Not at all	0	0%
A few times a semester	1	7%
Once a week	4	27%
In every class	10	67%

How likely are you to recommend that your colleagues use a Tablet PC in the classroom?

Not at all likely	0	0%
Not very likely	0	0%
Somewhat likely	0	0%
Very likely	15	100%

n = 15

Tablet PC Post-Survey Questions and Responses

For what tasks did you use your Tablet PC in the classroom?

See “usage survey” – it was my mobile desktop, media player – can’t work without it

Interactive discussion and math derivations. Drawing images of concerts

Windows Journal allowed instant written assessments

Taking roll

Lectures

Power point presentations, Internet Explorer, some downloaded music

All of the normal laptop/multimedia apps (PowerPoint, music/video clips, surfing the net, etc.). Plus, annotating samples of student writing, recording student report-outs, critiquing actual student work and archiving lesson plans.

Presenting lectures in PowerPoint, gathering information from brainstorming sessions, and working sample problems.

Interactive concept building. Questions that solicit wide range of responses.

PowerPoint presentations with wireless projection, interactive simulations, interactive grading (with instant mailing of results to students – i.e. instant feedback), statistical analysis with ForecastX, “drawing the answers” to questions, accessing the Internet for drawing information into a course, and taking attendance

- 1) Primary lectures via PPT
- 2) Viewing documents and assignments (PDF, doc)
- 3) on-the-fly examples (windows journal)
- 4) e-grading of reports (windows journal)

Showing movies, surfing web, problem-solving, spurring in-class and after-class discussion.

PPT presentations and problem solving by students

Art / Grammar / Student presentations

In-class research

Anonymous surveys / Questions

To show students how to do assignments

What did you consider the most effective uses of your Tablet PC in the classroom?

Drawing and writing on the fly, electronic grading, great way to store and mark up images and files, electronic note taking...

Drawing diagrams of concepts being discussed

Impromptu internet activities

Video playback in small groups. Emailing of written evaluations.

Analyzing text

Lectures (was only use)

Highlighting text, adding notes to a presentation

The portability and archive potential added to the effectiveness as well.

PowerPoint presentations were more spontaneous and interactive

Surveys. Questions that have responses that students don't openly admit to.

Wireless projection while moving around the classroom (used sometimes during lectures and also used with interactive simulations.

Actions 1 and 2 above could really be done by any computer so 3 and 4 were novel tablet Apps. I frankly found e-assignments and grading most effective (reduced paper wad)

Problems solving, spurring discussion

Student answers to problems

The tasks mentioned above plus accessibility to the web

Which classroom tasks were simpler or easier when using your Tablet PC?

Just about any computer task – all of those mentioned above The TPC is great- don't teach without it!

Not many

PowerPoint- neither of my rooms had computers this semester, so the wireless was great

Mobility of a powerful yet small PC

Not sure

Interlacing drawings and text. Quickly correcting errors (with eraser)...

The ability to write on a PPT presentation when showing both text and images

Presenting and annotating writing samples.

Not sure if they were simpler – just much more effective!

Saving the thoughts/discussion key points.

Grading student presentations with a “rubric method”.

E-grading was by far simpler than grading hard copies (especially when traveling)

Showing movies

Showing students their grades

Having office hours anywhere

Research

Email / communication with students

What challenges or obstacles did your Tablet PC present in the classroom?

1-screen is too small 2-My handwriting is too sloppy 3-It kept me from being fully animated at the board.

My main obstacle was getting edited to Ed(?) Tech to deliver projectors on time.

Battery life was rather short. Also, when Crowley Hall becomes Wi-Fi, I will not be as tethered as I have been.

Still not mobile enough to use during lectures – and to walk around a lot

Challenge – need to check setups and working projector early. Occasional glitches were easily recoverable. On one occasion projector was not functional. (But I had plastic and pens along – always – if a problem)

Have not yet been able to use wireless technology for overhead projection; the time it takes to set up the tablet and the programs I wish to use (boot up, load Internet Explorer, Power Point, Real Rhapsody). I tried setting up my computer for class ahead of time, but no program would work on the projection screen, so I always had to boot from scratch, which is time consuming.

The interfacing with some of the classroom equipment (ugh! Especially the sound in DB241). My web pages sometimes didn't load properly, and the keyboard/screen were a little small making errors in key strokes and writing more common for me.

I was tethered to podium – although without the tablet I was still stuck at the podium, I would have like to have the freedom to circulate. I lost battery power once or twice during class. Poor view angle prevented me from using tablet more in the lab where I am not connected to a projector. In the new SLC all labs have projectors, so that may address the issue. Or improvements in screen technology.

The challenge was me to stand at one place or come back to the TPC.

Battery life is the biggest challenge. Learning how to effectively use the TabletPC interface was the second largest obstacle.

Being tethered to project was the worst. In some rooms the cable was very short so tablet mobility could never truly be reached.

Slow set-up. Need to dim lights.

Format too small for chemical figures.

Needing to call for LCD projector ahead of time
Uncomfortable screen placement in DBRT classrooms

Course-Related Strategies

	Every Day	Once a Week	Some times	One time	Never	Score	Rank
1. Assignment markup – adding comments “on top of” student work, using <i>Word</i> or <i>Journal</i>	1	3	4		6	21	9
2. Live annotation – adding notes to an in-class presentation, e.g. with <i>PowerPoint</i>	4	5	4		1	39	1
3. Fill-out forms – checking boxes or filling in blanks on a document in <i>Journal</i> or <i>Word</i>	2		2	2	8	14	
4. Note-taking – during a class	3	2	4	1	4	27	5
5. Drawing – illustrating a concept or topic, using drawing software or <i>PowerPoint</i> tools	4	3	4		3	33	3
6. Multimedia library – storing images, music, or text on the tablet for use in class	4	6	2		2	38	2
7. Wireless presentation – projecting the tablet screen while walking around the classroom	4	2	1		7	24	7
8. Student files – saving student work for grading or later reference.	3	3	2		7	25	6
9. Handoff to student – handing the tablet to a student to answer a question or present a topic	4	1	4	1	4	28	4
10. Data collection – recording scientific data or student observations “live”	1	4		2	7	18	10
11. Email – sending feedback to students during class	5	1			8	23	8
13. Other – traveling with tablet			1				
14. Other – wowing my friends!	1						
15. Other – scanned manuscript with added notation		1					
16. Other – "Creating" Lecture in class on the Tablet PC	1						
17. Other – Responding to student questions using the Tablet PC in class				1			
18. Other – Interactive simulations		1					
19. Other – Statistical Analysis	1						

Software

	Every Day	Once a Week	Some times	One time	Never	Score	Rank
1. <i>Windows Journal</i> (Microsoft)	3	7	2		2	37	5
2. <i>OneNote</i> (Microsoft)		5	1	1	6	18	7
3. <i>PowerPoint</i> (Microsoft)	6	6		1		43	2
4. <i>Word</i> (Microsoft)	7	4	1		1	42	3
5. <i>Excel</i> (Microsoft)	3	4	2	1	4	29	6
6. <i>Internet Explorer</i> (Microsoft)	9	1	3			45	1
7. <i>NetSupport</i> – for wireless presentation	3		1		9	14	8
8. <i>Acrobat</i> (Adobe)	4	6	2	1	1	39	4
9. <i>TurboCAD, Illustrator</i> , or other drawing/CAD software		1			12	3	10
10. <i>iTunes</i> (Apple)		1	2	1	9	8	9
11. Other – my own software for geophysical data			1				
12. Other – maptech GPS software			1				
13. Other – Home Concert 2000 SE for Midi files		1					
14. Other – Real Rhapsody, File Maker pro, Picture software, Le Petit Robert (dictionary)	1	1					
15. Other – Encyclopedia Universalis		1					
16. Other – ForecastX Statistical package (used with Excel)	1						