



Doane EDU 699-17
Handhelds in Teaching and Learning
Fall 2005- O'Neill, NE

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Course Description:

This course will explore handheld computers as a positive solution to the goal of ubiquitous access to computing for students in schools. Learn how this cost-effective tool can transform traditional teaching practices into 21st century learning goals such as communication, collaboration, and inquiry. Educators will become competent in the Palm operating system and the many applications available for classroom integration. As a result of this course they will develop a curriculum framework including mission/vision, learning outcomes, integrated units, and assessment of student learning while using handhelds. Management and student policies will also be researched and adapted to maximize the learning potential of these powerful tools. Witness the positive learning effects on student achievement, motivation, and collaboration when utilizing handheld computers in the classroom.

Materials:

No text required; instructor-selected handouts will be utilized.
Each participant will need a handheld computer with the Palm operating system to use in conjunction with this course.

Course Objectives:

Upon completion of this course the learner will be able to:

- Develop a vision and goals for using handhelds in the classroom
- Create a management system and classroom policies for handhelds in the classroom
- Utilize handheld applications for teacher productivity and student learning goals
- Develop curriculum-integrated lessons which are enriched with the use of handheld technology



HANDLING HANDHELDs

IN EDUCATION



Doane Education Standards:

The graduate student, as a developing professional, works toward building and improving skills in the following areas:

1. The developing professional understands the content knowledge of the discipline(s)
2. The developing professional understands how children learn and develop, and provides opportunities supporting intellectual, social, and personal growth.
3. The developing professional recognizes and provides for individual differences and diversity.
4. The developing professional uses a variety of instructional strategies to encourage students' development of skills and strategies for critical thinking and problem solving.
5. The developing professional uses classroom management and motivational strategies to create a positive learning environment.
6. The developing professional uses knowledge of effective communication techniques.
7. Plan: The developing professional utilizes effective planning techniques.
8. The developing professional understands and uses a variety of formal and informal assessment strategies.
9. The developing professional is a reflective practitioner who actively seeks out opportunities to grow professionally.
10. The developing professional fosters relationships with school colleagues, families, and agencies in the larger community to support students' learning and welfare.

Course Requirements:

- Students will actively participate in all learning activities.
- Absences must be prearranged and/or excused and all work will be the student's responsibility to make up.
- Students will complete the following coursework and hand in by the due dates as follows:

Course Assignments	Details	Due Date	Points Possible
Blog Posts	handlinghandhelds.blogspot.com Respond to "Blog" questions following each class session; post answers and opinions as well as read the rest of the posts to be a part of the "digital dialogue" community of the Blog	Each post due one week following class meeting time - ongoing	100
Curriculum Guide	Contribute to the O'Neill Public Schools Handheld Curriculum Guide by collaborating on policies, procedures, student contracts, vision and goals of program, etc.	Final date of class	150
Apps Log	Keep a log of Palm OS applications as well as their uses for the classroom. Present/teach one app to the group. Collaborate on the apps log that we will post online for other handheld users.	Final date of class	100 for log 50 for app presentation
Plan Palm basics training night	Plan and help facilitate a "train-the-trainer" Palm basics training night for other members of the district or community.	End of September	100
Integrated Lesson	Plan, present, and share on website at least one integrated lesson utilizing handhelds. This can be cross-curricular and planned with a team or designed and utilized by just one teacher.	Final date of class	150
FIELD EXPERIENCE: Teacher Interview	Design a formal questionnaire or informal questions to research through a teacher outside of your district who currently uses handhelds in his/her classroom. Present findings and share with the group through the Class Blog	End of October	150
ACTION RESEARCH: Student Interview or data collection project	Research the effects handhelds have on student achievement. Format can range from informal student interviews to a more formal data collection tool.	Final date of semester	150
TOTAL POINTS: 1,000			

Grading Scale:	
900 – 1,000	A
800 – 899	B
700 – 799	C
600 – 699	D

Structure/Timeline: (TENTATIVE)

<u>Date</u>	<u>Time</u>	<u>Contact Hours</u>
Monday, August 15 th	8:00 – 5:00 p.m.	9
Tuesday, August 16 th	8:00 – 5:00 p.m.	9
a Sat. morning in September	7:30-1:00 p.m.	5 ½
a Sat. morning in October	7:30-1:00 p.m.	5 ½
Tuesday afternoons, (Sept. through Oct.)	3:30 – 5:30 p.m. 2 hrs x 8 weeks = 16	
		45

ACTUAL CALENDAR:

August

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

September

				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

October

30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

ROUGH OUTLINE: "Blueprints" for class

Day #1 – "Foundation Building"

- Syllabus
- Calendars/ Plan Schedule
- Website and Blog introduction
- "Learning in Hand" website tour
- Physical set-up and "loaner" handheld assignments
- Palm basics
 - Text input
 - § Graffiti and Giraffe
 - § On-screen keyboard
 - § External keyboards (need keyboard "driver" app)
 - Built-in apps
 - § "Hard" buttons
 - § "Soft" buttons
 - Beaming
 - § Documents/files
 - § Applications
 - Hot synch
- "Media breaks" and reading assignments
 - "Getting to One" podcast with Martha Rolley, Palm, Inc.
 - Willowdale Video "Teaching Now"
<http://teachingnow.org/watchTV.php?id=32>
 - SEIR*TEC News Wire, December 2003, "Using Handheld Technologies in Schools" (*available as ebook in Palm Reader or eReader*)
 - Videos from:
http://www.handheldlearning.co.uk/html/dudley_pda_project.html
and <http://www.educ.ttu.edu/tla/videos/handhelds.html> , etc.
- Additional apps- "Can't live without" apps
 - **Begin apps log (as spreadsheet in "Docs to Go"?)
 - Docs to Go
 - Palm Reader (or eReader)
 - Quizzler
 - Sketchy
- HOMEWORK assignment(s)
 - Future vision- one page writing
 - Graffiti score of at least 1,000

Day #2 – “Construction Day”

Distribution of tools and start building!

- Share future stories – common goal/vision
- Research school management
 - Student use policies
 - Student contracts
 - Home communication
 - Physical management (charging stations, hot synch rotation, grafitti alphabet, etc.)
- Web tools
 - Avant Go
 - Fling It
- Enriching the Writing Experience
 - Fling-it article from Tony “Meaningful Student Writing Experiences”
 - Word Processor Compare and Contrast:
 - § [Memo Pad](#)
 - § [FreeWrite](#)
 - § [Docs To Go](#)
 - § [WordSmith](#)
 - § [Quickword](#)
 - Visit Roving Reporter sites
- Subject-Area Apps

Math	Lang. Arts	Science	Social Studies	Other
Calculator	Noah Lite	Cooties	iKWL	CFB Timer
Angles	Gone Mad!	Moon Phase	Day Trader	Name Pick
Math Card	Silly Sentences	Chem Table	Inflation Master	
Math Wiz	Spell-it	Geney	Visit It	
Math Wizzer	Hungman			
Factors	Bookslog			
Divisible	BookShare			Logic Games
People Counter	IdeaPad			Summing
My Checkbook	MatchWho			Coconut Fern
Mixed Up				Matches
Simplify				Minefield
Tessellation				TicTacToe
Timer Math Facts				

- Plan “Palm Basics” Training Night
- Troubleshooting
 - Read “Palm OS troubleshooting guide” in Fling It
 - School-wide troubleshooting plan

Day #3 and beyond... "Interior Decorating and Finishing Touches"

- Go Know's Handheld Learning Environment (HLE)
 - PAAM Account Setup
 - HLE Apps
- Create ebooks in eBook Studio
- Create Quizzler Quizzes
- Integrated Lessons
 - (Use [Palm OS Handhelds in the Elementary Classroom](#) from ISTE Publications as a resource)
- Community Connections
 - Parents' Night?
- Field Experience Project
- Action Research Project
- Q & A and Troubleshooting Sessions
- Add to Apps Log
- Finalize Curriculum Guide
- Explore Articles and Research in the Field
- Share Student Successes!

Don't forget to BLOG!

<http://handlinghandhelds.blogspot.com>