From Digital Resource to Online Course

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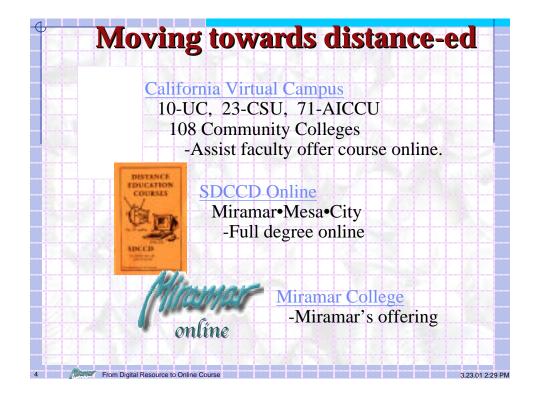
Abstract

A web environment for chemistry students in Chem-100 (Allied heath Chemistry) at Miramar College has been developed. This web environment contains: class syllabus, course schedule (dates of reading assignment, homework assignment, quizzes, sample exams, special project), survey of student interest, helpful study advise / aide, solution to homework set, supplement homework questions, sample exams, lecture notes and links to other chemistry resources. Tutorials were developed to reinforce some important topics that students had difficult time understanding in the course. The intent of the web environment / digital resource is: 1) to help students succeed in chemistry and 2) position Chem-100 as an offering for the California Virtual Campus. The California Virtual Campus (CVC) was created in 1999, by then Governor Wilson, to create a portal for California's Community College educator to offer their courses online. This paper will discuss how the chemistry digital resource for Chem-100 was developed; what steps to take to translate MS-Word, MS-PowerPoint, MS-Excel documents to web friendly files using Netscape Composer and Adobe Acrobat. The finish product is used as a template for the online course that will be taught this fall under the California Virtual Campus (Miramar College).

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Outline I. Moving towards distance education California Virtual Campus: SDCCD online, Miramar online Chemistry courses online Students profile II. Basic idea: Resource binder Beginnings: Lecture Notes to "Word Processing" Notes. The Resource Binder: Notes, Sample exam & other resources. III. Digital media: Electronic environment **Netscape Composer: Web Master without HTML** Page layout and the content Announcement, syllabus, schedule, lecture notes, sample exam... IV. Online course: Strategy WebCT: Shell to house online course. Survey, equipment requirement, tech-etiquette. V. Tools to start digitizing your course material VI. Summary From Digital Resource to Online Course



Chem Courses On-line

Chem Offering from CVC

CSU, Stanislaus (BioChem 4400) (ChemLife 3070)

SFCC (ChemNonscientist 110)

Coastline (GenChemA 180) (GenChemLabA 180L)

Coastline (GenChemB 185) (GenChemLabB 185L)

Pierce (GenChem1 101) (GenChem 101)

Santa Monica (GenChem1 11)

Canyons (GenChemI 201) (GenChemII 201)

Cuesta (GenChem 1A) (GenChem 1A)

LaVerne (IntroChem 103) (IntroChemLab 103L)

MiraCosta (PrepChem 108)

SanMateo (SrvyChem 100TV)

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Student Profile

Online success requires

- Motivation and self-discipline
- Learn primarily from written and graphic documents.
- Willing to put in just as many hours as traditional course.
- Knowledge of computers, software and internet operation (e-mail and Web browser)
- The ability to learn WebCT.

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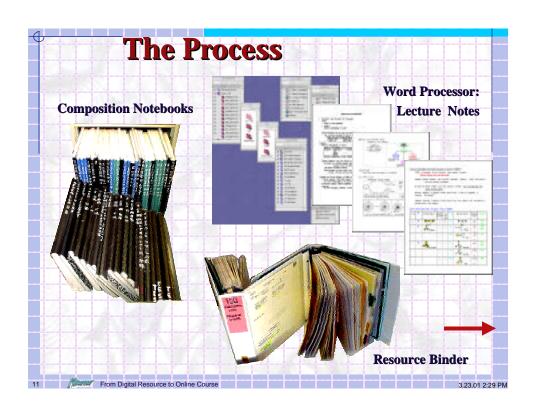
Web usage	Everyday 55.80%	2-3 times a week 20.90%	1 wk or less 20.90%	Not at all 2.30%		
Where access	Own 77.50%	School 22.50%				
Speed connection	Very fast 9.70%	Fast 73.10%	Slow 17%	Very slow		
Activities used Web	Access class material and assignment 95.30%	Help with assignment 46.50%	Study for test(s)	Research /Surf info 55.80%	Take quizzes 30.20%	Chat onlin about the course 11.60%
Spend time online	Music / Entertainment 9.30%	email communication 60.40%	Retrive news and other information 16.20%	Homework and Research online 53.40%		
Frustrations	Speed of connection 48.80%	Low quality of informtion 18.60%	Read text from screen then print 16.20%	Accuracy of search engine difficulty of finding info 48.80%	Junk mail and Spam 67.40%	
	Highest	2nd 3rd	d 4th	Lowest		

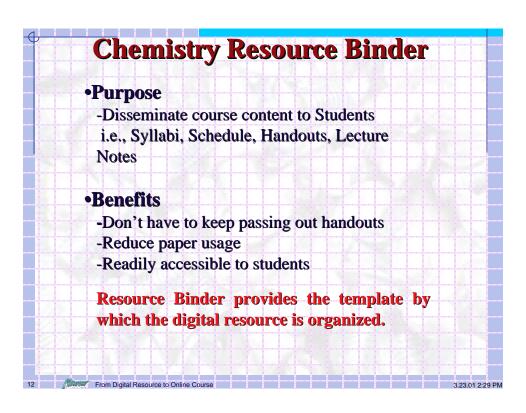
Agree	e or Disagree	Strongly Agree	Agree	Neutral	Disagree	Strongly disagree
Use internet to do class research		23.80%	45.20%	19.00%	9.50%	2.30%
Study for exams		50.00%	35.70%	4.70%	4.70%	4.70%
Supplement to text		16.60%	30.90%	26.10%	9.50%	16.60%
Benefit to have online study guide		52.30%	38.00%	4.70%	2.30%	2.30%
Topics in web teach me more than text		21.40%	35.70%	38.00%	2.30%	2.30%
Read e-text rather than textbook		11.90%	16.60%	42.80%	14.20%	14.20%
I would be very interested in a Web service for exploring career options.		33.30%	42.80%	23.80%	0%	0%
Traditional Course		Course with Online Resource			Online Course	
CH-100 43.8 %		43.6 %			12.5 %	
CH-200 29,4 %		58.8 %			11.8 %	
CH-201 30.0 %		70.0 %			0 %	

The Basic Idea

- Present course content through a multitude of media to convey behavior at the atomic scale.
- Disseminate information that is both convenient in schedule and geography.
- Create module lesson plans that can be shuffle for other courses or rearranged if text is changed.
- Reduce paper usage and save on copy cost (for the department).

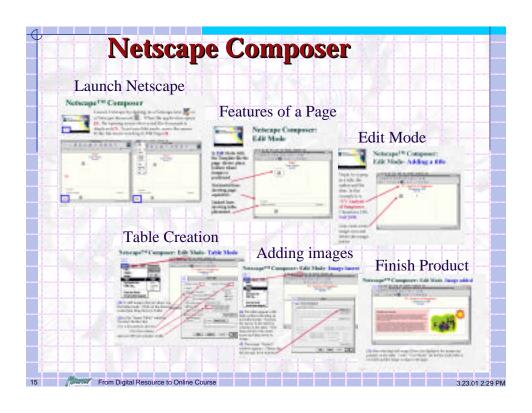
Developing A Library Templates for: Handouts & Activities A variety of handouts, **Exam Questions** concept summaries and **Lecture Notes** Ouestions are saved as group activities (marathon Notes are design in a footnotes in a MS Word group learning problem set) modular format which document. In this are developed for students provides flexibility in format questions can to comprehend topics in the sequence of easily be shuffled when different formats. presentation. making up an exam.

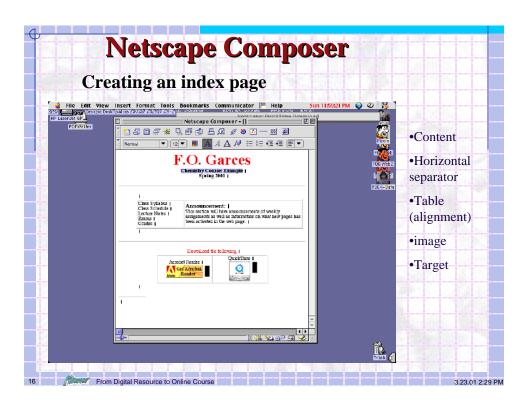


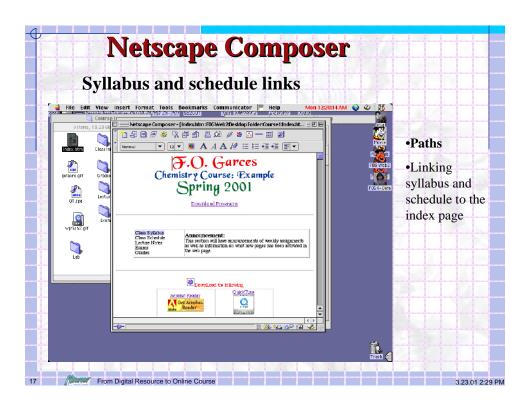


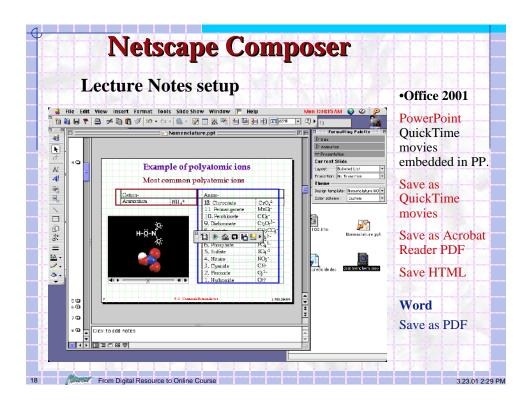


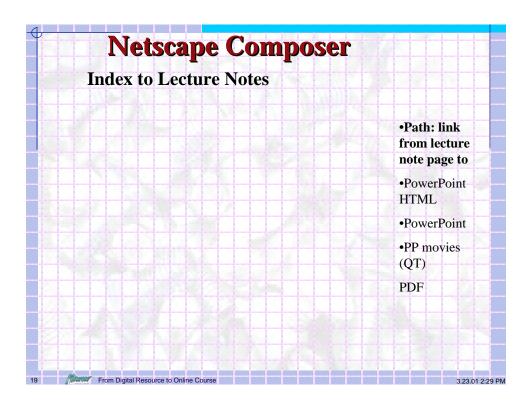


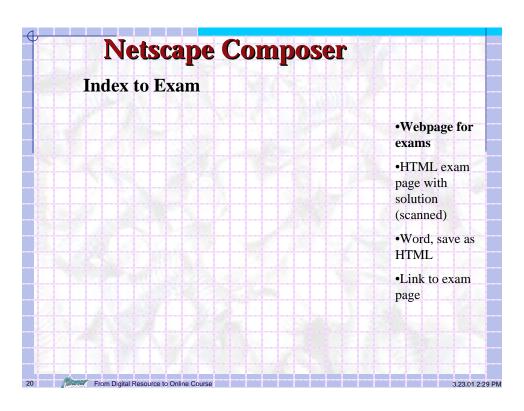


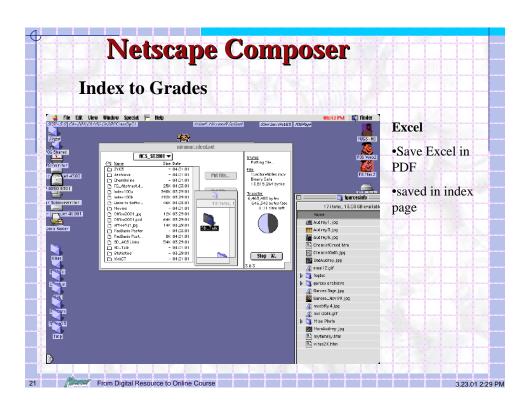


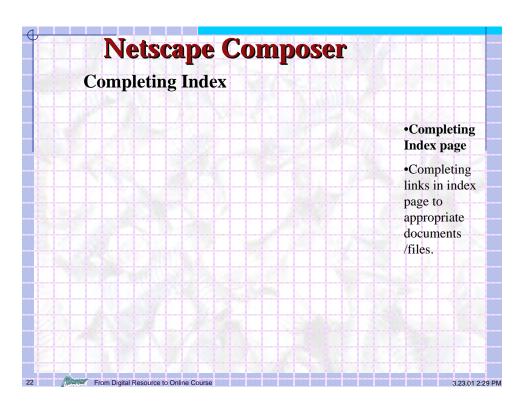


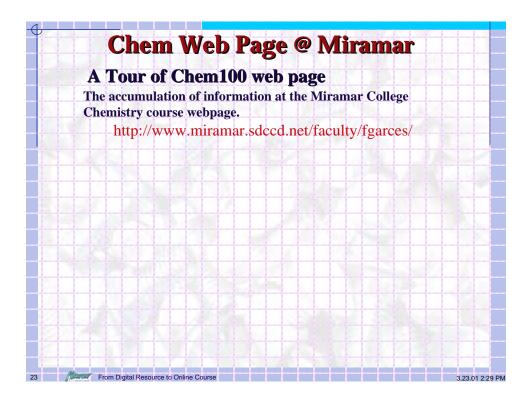


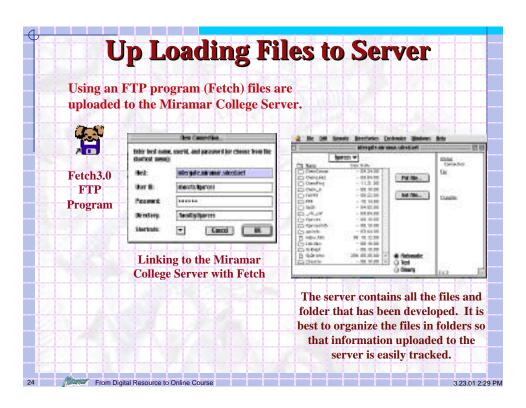


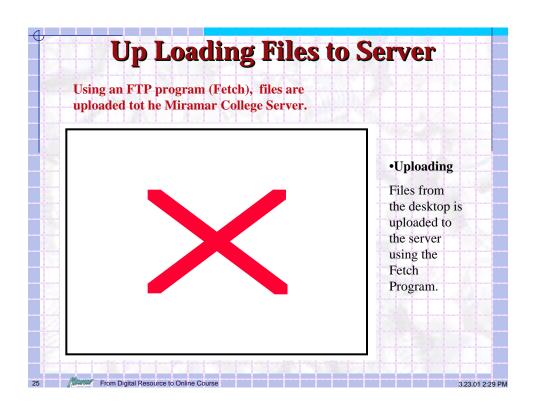


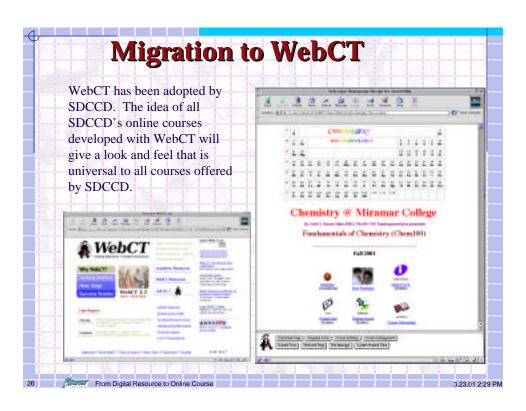


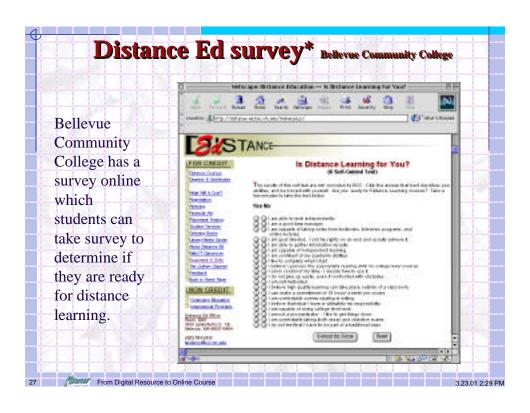


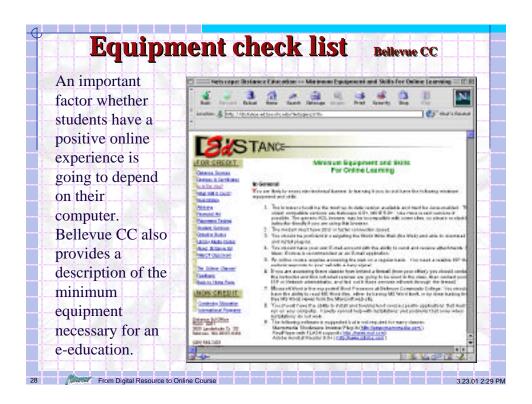












Survey for Distance Ed http://distance-ed.bcc.ctc.edu/WebAssess/	Survey to potential students considering distance education.		
Equipment requirement http://distance-ed.bcc.ctc.edu/techspecs.htm	Description of minimum equipment for distance education		
WWW Storage: FreeDrive 50 MB www.freedrive.com Myspace 300MB www.myspace.com MyPlay 5GB www.myplay.com Mac itools 20MB www.idisk.mac.com	Virtual storage where students can store data		
Screen capture prgm: Flash-It, screenmovie, http://www.pure-mac.com/screen.html	Screen capture Shareware and Freeware that provides capture images from monitor.		
Fetch 3.0.3 http://www.eskimo.com/~pristine/ftp.html#fetchomatic	Program to upload website to server		
California Community Foundation http://www.foundationccc.org/student.asp	Software from Foundation at a reduced rate		
F.O. Garces Link site	Tutorials and link for students.		

Conclusion

Digital Resource:

Web-based methods of disseminating information to students are effective means of helping students help themselves to course (required and supplemental) material.

Big-bang approach to digitizing content is overwhelming. Piecemeal over time it is manageable.

Transformation:

Using Netscape Composer, Office, and Acrobat, transforming content to web friendly pages can be accomplish without knowledge of JAVA or HTML.

Online Course:

Customizing course content, the step of offering the course online can be realized.

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