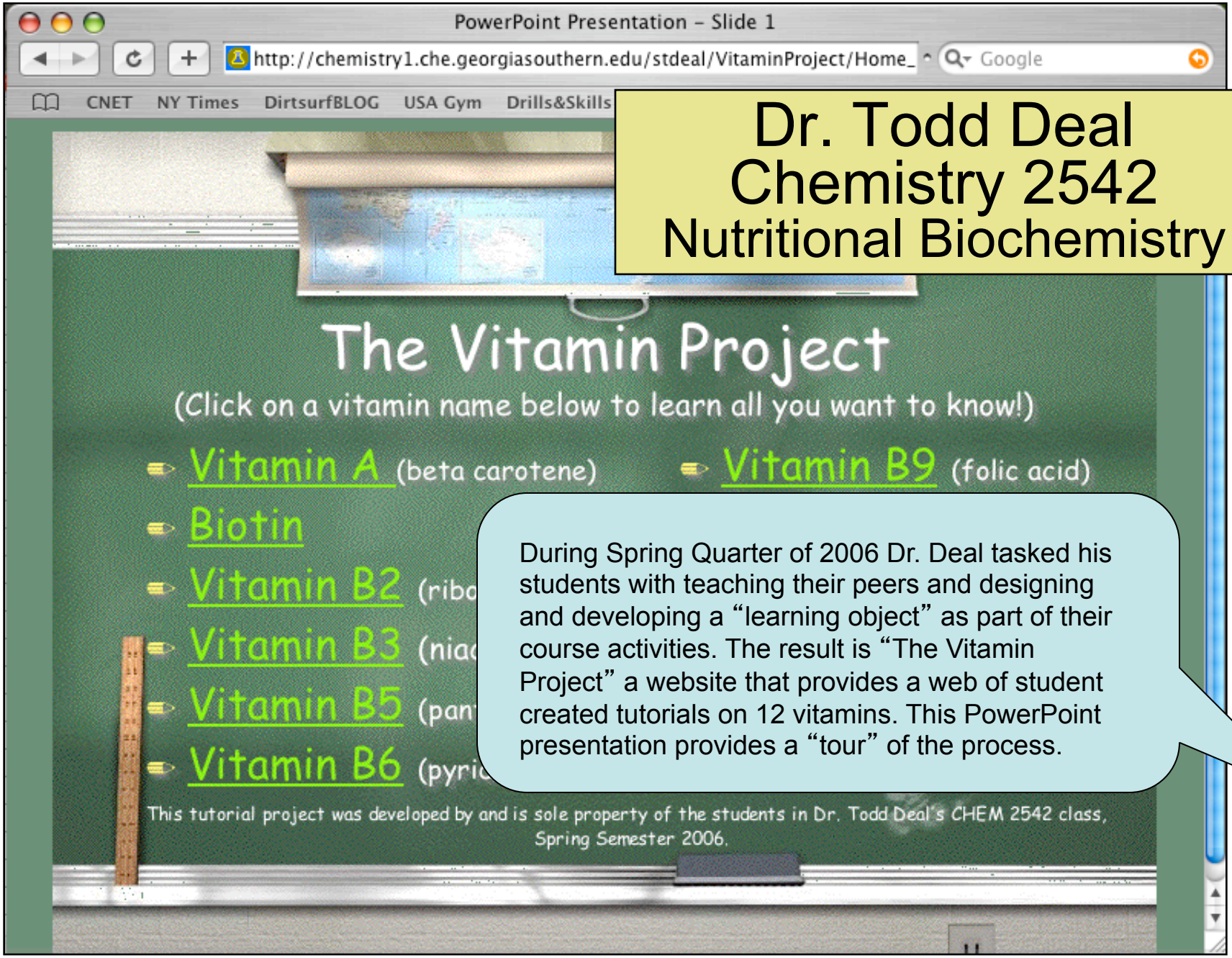
PowerPoint Presentation – Slide 1
http://chemistry1.che.georgiasouthern.edu/stdeal/VitaminProject/Home_
Google
CNET
NY Times
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USA Gym
Drills&Skills
Dr. Todd Deal
Chemistry 2542
Nutritional Biochemistry
The Vitamin Project
(Click on a vitamin name below to learn all you want to know!)
Vitamin A (beta carotene)
Vitamin B9 (folic acid)
Biotin
Vitamin B2
Vitamin B3
Vitamin B5
Vitamin B6
During Spring Quarter of 2006 Dr. Deal tasked his students with teaching their peers and designing and developing a "learning object" as part of their course activities. The result is "The Vitamin Project" a website that provides a web of student created tutorials on 12 vitamins. This PowerPoint presentation provides a "tour" of the process.
This tutorial project was developed by and is sole property of the students in Dr. Todd Deal's CHEM 2542 class, Spring Semester 2006.

Todd Deal's Homepage

http://www.georgiasouthern.edu/~stdeal/

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S. Todd Deal, Ph.D.
Professor of Chemistry

Georgia Southern University
Department of Chemistry
PO Box 8064
Statesboro, Georgia 30460
Phone: 912-681-0637
Fax: 912-681-0699
Email: stdeal@GeorgiaSouthern.edu

This is Dr. Deal's website. Under the "Courses" you can access his current courses.

Courses | Research Gro

Baptist Student Union | Personal Li

Chemistry Department | The Vitamin Project | Georgia Southern Homepage

Is your power source 110 or 220? Plug in and let your light shine!

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Courses Page

http://www.georgiasouthern.edu/~stdeal/courses.html

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WELCOME!

You've discovered Dr. Deal's Course Website!! If you are currently enrolled in one of my courses, you will find great stuff to help your learning. If you are just surfing, check out the course syllabi. As always, this site is constantly UNDER CONSTRUCTION!

CHEM 1140 Introduction to General & Organic Chemistry

CHEM 1145 Principles of Chemistry I

CHEM 2542 Nutritional Biochemistry

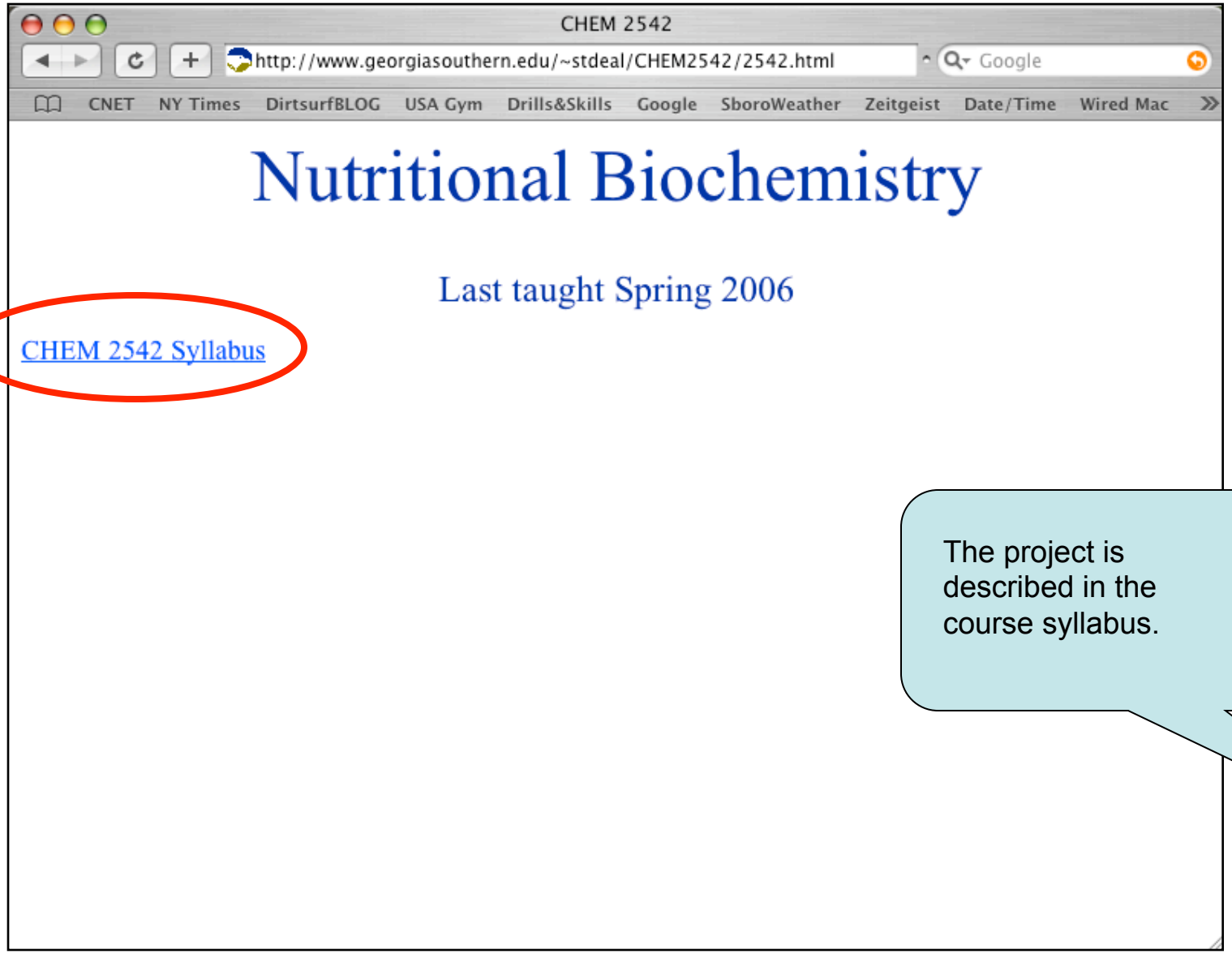
CHEM 3341 Organic Chemistry I

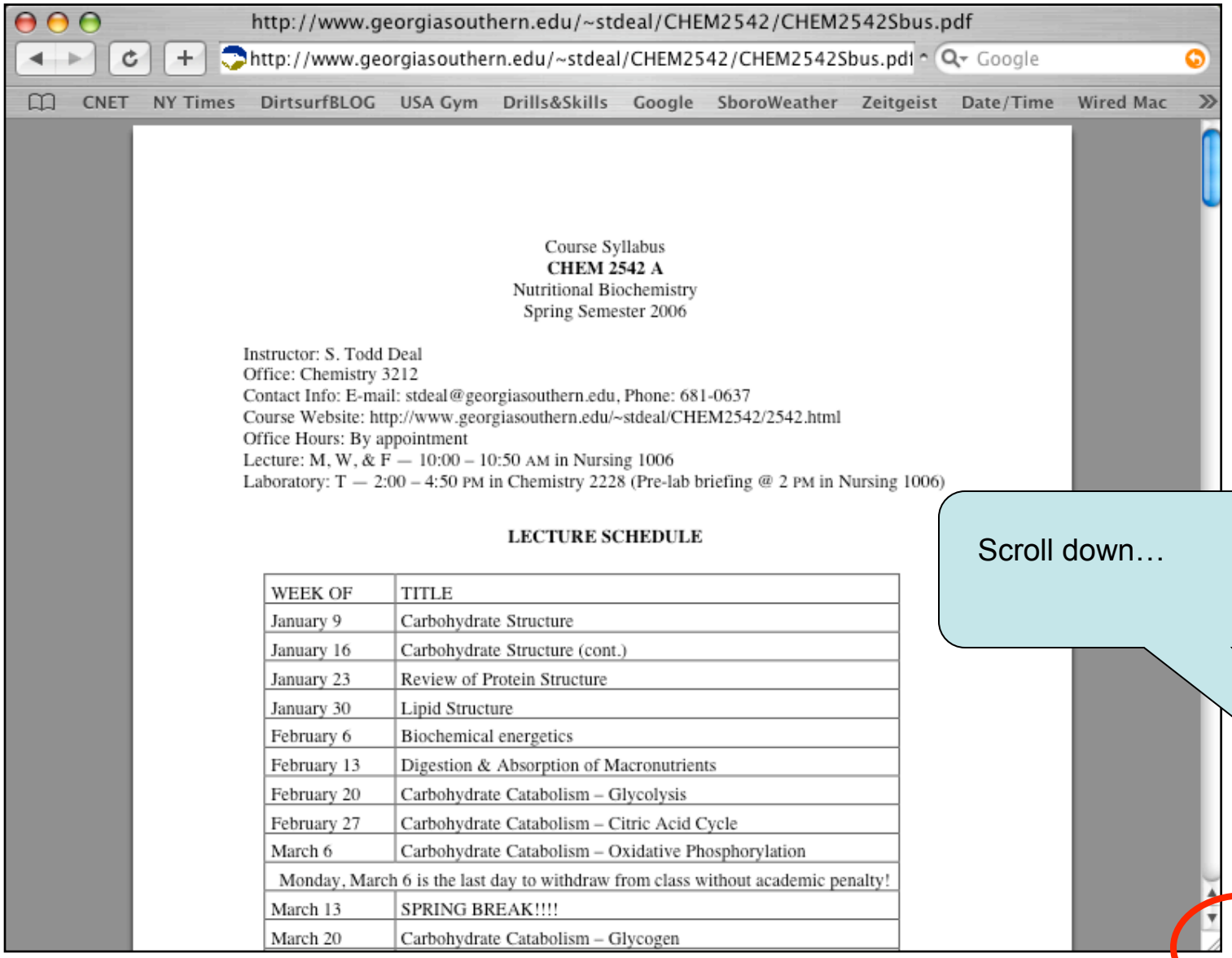
CHEM 3342 Organic Chemistry II

CHEM 4890 BioOrganic Research

CHEM 5541 Biochemistry I

The “”Vitamin Project” is part of the “Nutritional Biochemistry” course.


CHEM 2542
http://www.georgiasouthern.edu/~stdeal/CHEM2542/2542.html
Google
CNET
NY Times
DirtsurfBLOG
USA Gym
Drills&Skills
Google
SboroWeather
Zeitgeist
Date/Time
Wired Mac
Nutritional Biochemistry
Last taught Spring 2006
CHEM 2542 Syllabus
The project is described in the course syllabus.


http://www.georgiasouthern.edu/~stdeal/CHEM2542/CHEM2542Sbus.pdf
http://www.georgiasouthern.edu/~stdeal/CHEM2542/CHEM2542Sbus.pdf
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CNET
NY Times
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USA Gym
Drills&Skills
Google
SboroWeather
Zeitgeist
Date/Time
Wired Mac
Course Syllabus
CHEM 2542 A
Nutritional Biochemistry
Spring Semester 2006
Instructor: S. Todd Deal
Office: Chemistry 3212
Contact Info: E-mail: stdeal@georgiasouthern.edu, Phone: 681-0637
Course Website: http://www.georgiasouthern.edu/~stdeal/CHEM2542/2542.html
Office Hours: By appointment
Lecture: M, W, & F — 10:00 – 10:50 AM in Nursing 1006
Laboratory: T — 2:00 – 4:50 PM in Chemistry 2228 (Pre-lab briefing @ 2 PM in Nursing 1006)
LECTURE SCHEDULE
WEEK OF
TITLE
January 9
Carbohydrate Structure
January 16
Carbohydrate Structure (cont.)
January 23
Review of Protein Structure
January 30
Lipid Structure
February 6
Biochemical energetics
February 13
Digestion & Absorption of Macronutrients
February 20
Carbohydrate Catabolism – Glycolysis
February 27
Carbohydrate Catabolism – Citric Acid Cycle
March 6
Carbohydrate Catabolism – Oxidative Phosphorylation
Monday, March 6 is the last day to withdraw from class without academic penalty!
March 13
SPRING BREAK!!!!
March 20
Carbohydrate Catabolism – Glycogen
Scroll down…

http://www.georgiasouthern.edu/~stdeal/CHEM2542/CHEM2542Sbus.pdf

http://www.georgiasouthern.edu/~stdeal/CHEM2542/CHEM2542Sbus.pdf

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each of the six experiments, and each report will be graded on a 25 pt. basis for a total of 150 pts. for this part of the course.

The Biochemistry of the Vitamins & Minerals

During much of the semester, our focus will be on the structure and metabolic biochemistry of the macronutrients. Equally important to human nutrition are the micronutrients, the vitamins and minerals. Given that we do not have time to cover these important nutrients in lecture and that you all need a well-developed understanding of them, I am assigning you the teaching responsibilities for the members of this class and the classes that will follow you! You will be organized into pairs, and each pair will be assigned a vitamin or mineral to research. Based on your research, you will be responsible for preparing an interactive web page/site dedicated to teaching others about your assigned vitamin/mineral. This page will be incorporated into a class-wide website that will "go live" sometime in early April.

I will provide you with a format/template that you will use to create your webpage. Your webpage **must** include the chemical structure of the vitamin/mineral, information about its known biochemical/metabolic functions, any dietary requirements (RDA, etc.), and its dietary sources. You **must** also include complete details of *at least* one biochemical reaction in which your vitamin/mineral is involved. Your webpage should also include information about any diseases or known disorders caused by dietary deficiencies of your vitamin.

Finally, your webpage should include a quiz/problem set to assess the knowledge gained by someone who visits your page. This will most likely be in a multiple choice format. Please understand that you will be graded on the quality of this quiz/problem set (see below). Therefore, you will want to make sure that the majority of your questions are thought-provoking that require higher order thinking skills.

What about the grading? This project is worth 50 pts. You will be graded on 1) the creativity & "interactiveness" of your design, 2) how well your webpage presents the information, and 3) your quiz/problem set. You are the teacher for this project – focus on enhancing your students' learning experience!

Project assignment described.

Courseware Tutorial & Workshop

Building "No Frills" Courseware with PowerPoint

Steve Beckham
Center for Excellence in Teaching

1

Courseware is "Packaged" Teaching

2

Assignment

Think of a small instructional segment in one of your courses.

Sketch a "knowledge web" of the segment including:

1. [illegible]
2. [illegible]
3. [illegible]

3

Introductory Think-Pair-Share

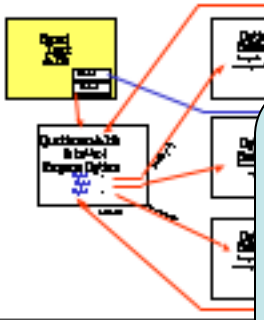
How can you use this "map" as a courseware design tool?

Turn to a partner and share your knowledge.

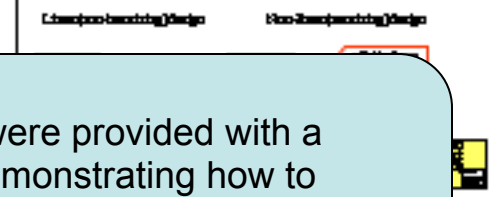
Do you have anything to share with the class?

4

"Mind-mapping" Your Courseware



Note the branching nature of the mind-map network? PowerPoint can do this!



6

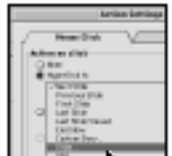
The students were provided with a brief tutorial demonstrating how to design courseware with PowerPoint. A handout of the process was provided to each student.

Branching links can be made with:

Hot Text,
An Image, or
A Button.

NOTE: You CANNOT make a link with a grouped set of objects.

Making a Link



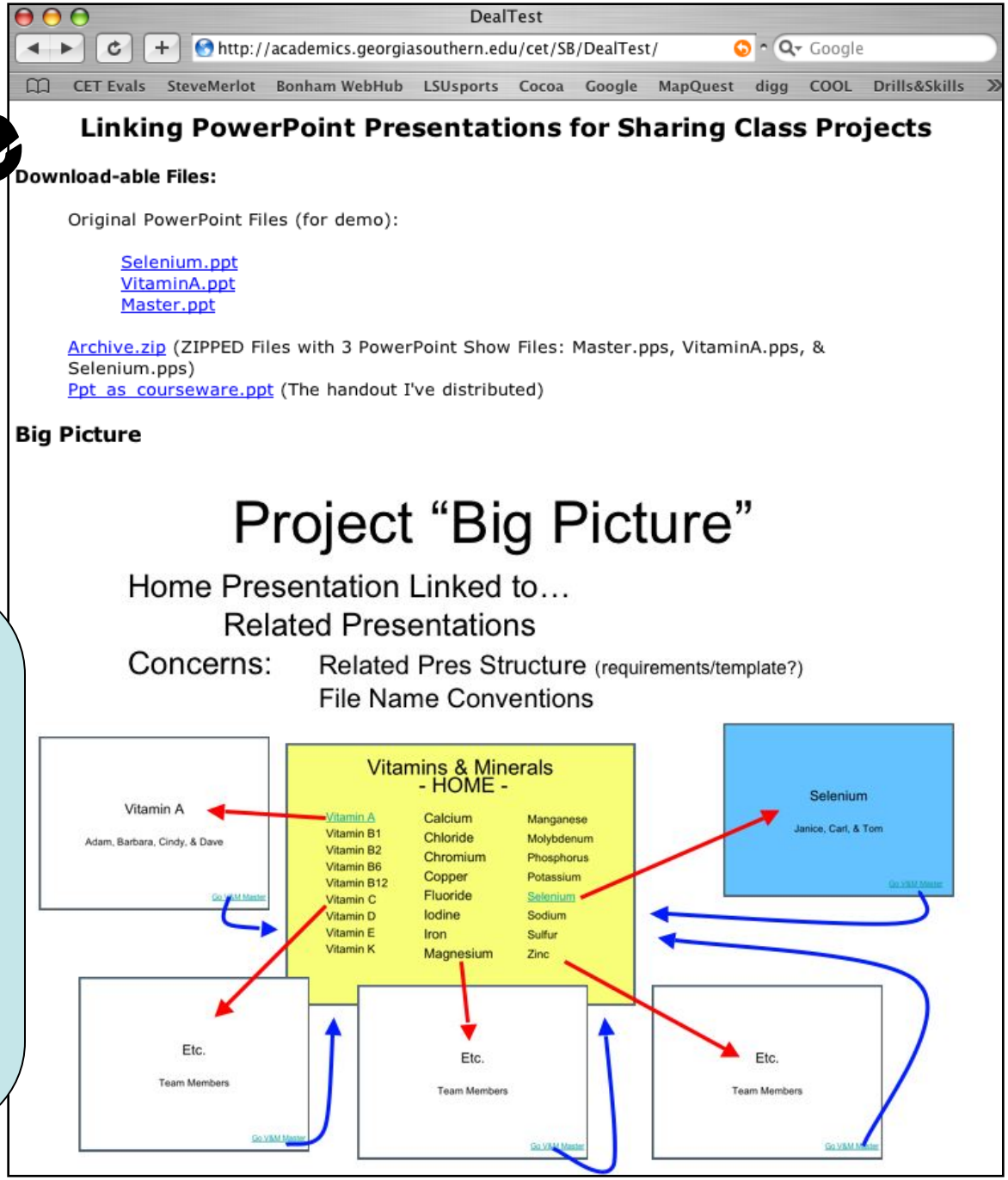
Warning!

By default linked text (hot-text) will become colorized according to the background template you have selected. Sometimes hot-text becomes almost invisible against the background. :(

Check your presentation! If this is a problem . . . There is a solution!

The Big Picture

During Spring Quarter of 2006 Dr. Deal tasked his students with teaching their peers and designing and developing a "learning object" as part of their course activities. The result is "The Vitamin Project" a website that provides a web of student created tutorials on 12 vitamins. This PowerPoint presentation provides a "tour" of the process.



http://academics.georgiasouthern.edu/cet/SB/DealTest

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Courses	Research Group Page	Pre-Med/Pre-Dent Site
Baptist Student Union	Personal Links	Info for Advisees
Chemistry Department	The Vitamin Project	Georgia Southern Homepage

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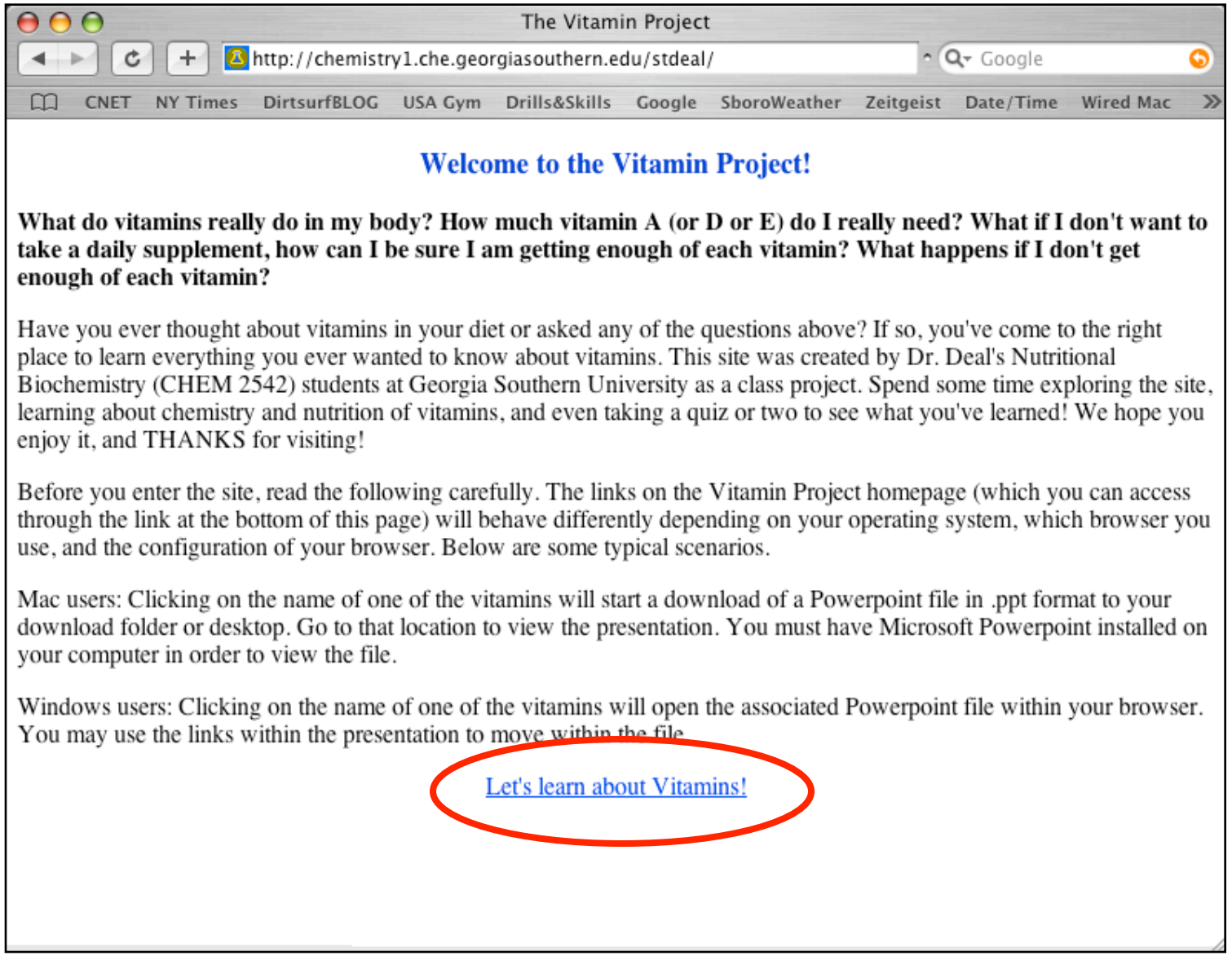
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USA Gym
Drills&Skills
Google
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Zeitgeist
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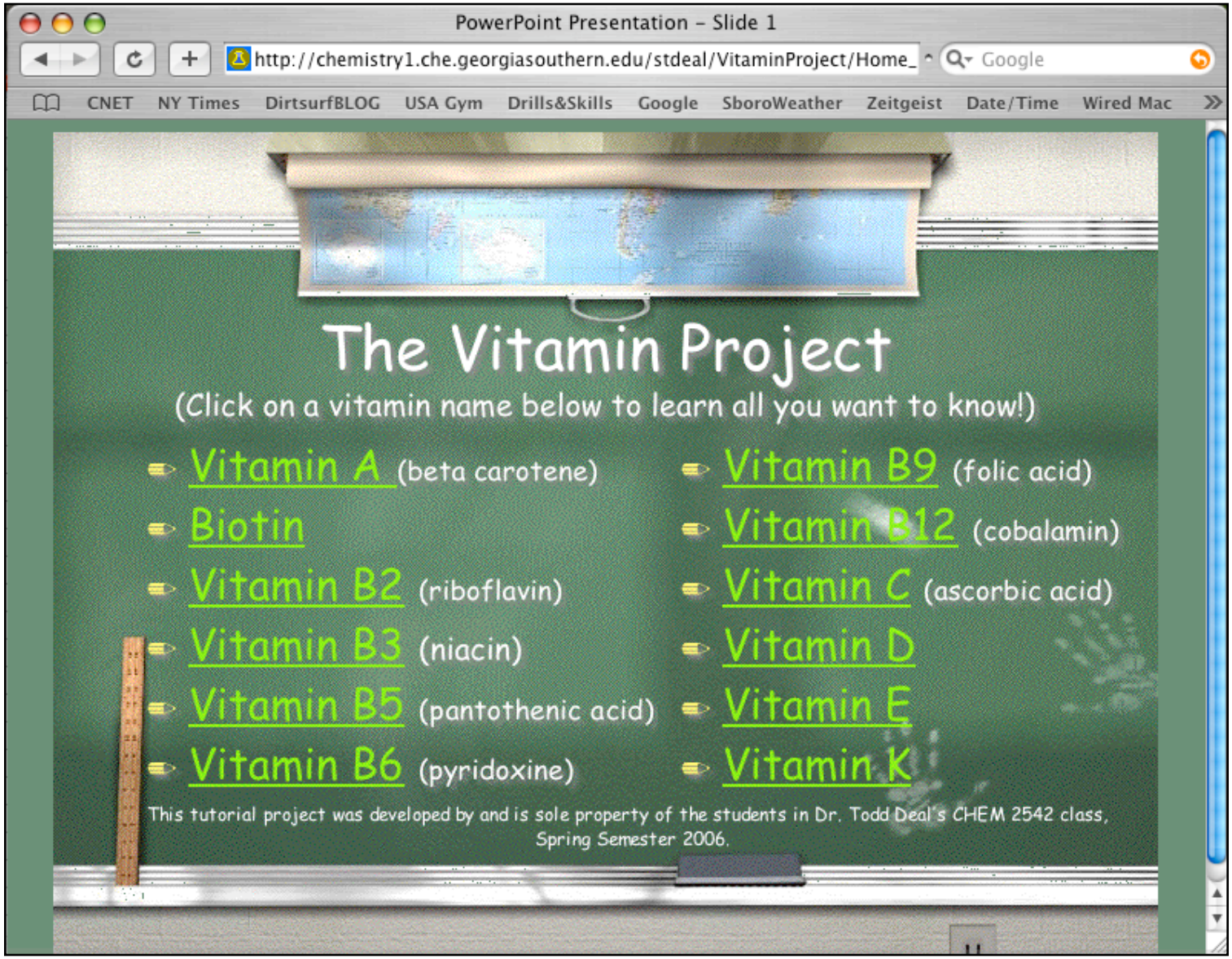
Wired Mac
Welcome to the Vitamin Project!
What do vitamins really do in my body? How much vitamin A (or D or E) do I really need? What if I don't want to take a daily supplement, how can I be sure I am getting enough of each vitamin? What happens if I don't get enough of each vitamin?
Have you ever thought about vitamins in your diet or asked any of the questions above? If so, you've come to the right place to learn everything you ever wanted to know about vitamins. This site was created by Dr. Deal's Nutritional Biochemistry (CHEM 2542) students at Georgia Southern University as a class project. Spend some time exploring the site, learning about chemistry and nutrition of vitamins, and even taking a quiz or two to see what you've learned! We hope you enjoy it, and THANKS for visiting!
Before you enter the site, read the following carefully. The links on the Vitamin Project homepage (which you can access through the link at the bottom of this page) will behave differently depending on your operating system, which browser you use, and the configuration of your browser. Below are some typical scenarios.
Mac users: Clicking on the name of one of the vitamins will start a download of a Powerpoint file in .ppt format to your download folder or desktop. Go to that location to view the presentation. You must have Microsoft Powerpoint installed on your computer in order to view the file.
Windows users: Clicking on the name of one of the vitamins will open the associated Powerpoint file within your browser. You may use the links within the presentation to move within the file.
Let's learn about Vitamins!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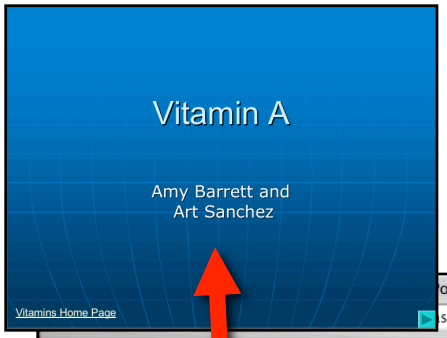
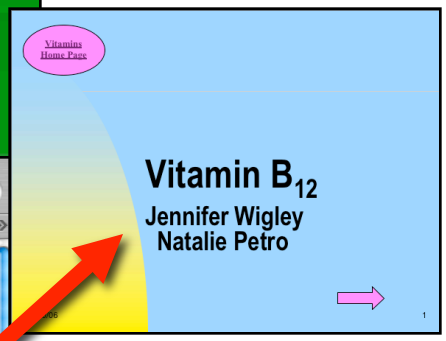
Vitamin A (beta carotene)
Biotin
Vitamin B2 (riboflavin)
Vitamin B3 (niacin)
Vitamin B5 (pantothenic acid)
Vitamin B6 (pyridoxine)
Vitamin B9 (folic acid)
Vitamin B12 (cobalamin)
Vitamin C (ascorbic acid)
Vitamin D
Vitamin E
Vitamin K
This tutorial project was developed by and is sole property of the students in Dr. Todd Deal's CHEM 2542 class, Spring Semester 2006.

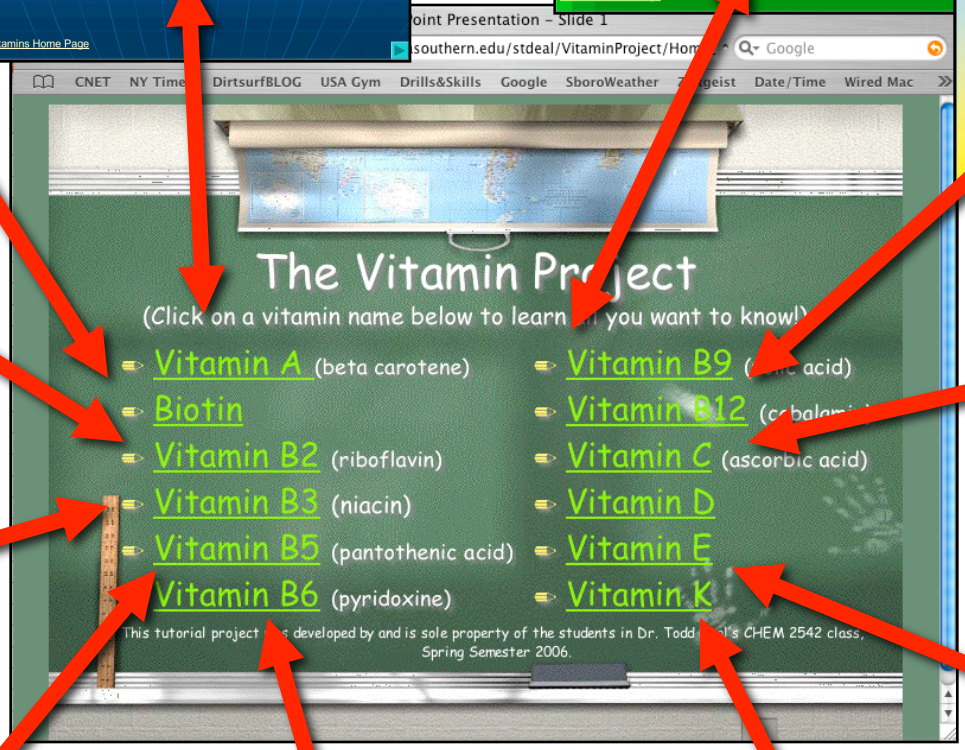

Biotin
Amy Abbott
Katie Direnzo
Vitamins Home Page


Vitamin A
Amy Barrett and
Art Sanchez
Vitamins Home Page


Vitamin B9
(Folate)
Sandy Allen
and
Milena Perez
Vitamins Home Page


Vitamins Home Page
Vitamin B12
Jennifer Wigley
Natalie Petro


Riboflavin...The "Energetic" B Vitamin
By: Andrea Parkman
And
Jessica Langham
Vitamins Home Page


CNET NY Time DirtsurfBLOG USA Gym Drills&Skills Google SboroWeather Date/Time Wired Mac
The Vitamin Project
(Click on a vitamin name below to learn
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Vitamin B5 (pantothenic acid)
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Vitamin B9
Vitamin B12
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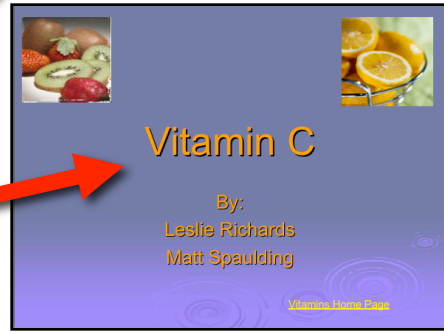
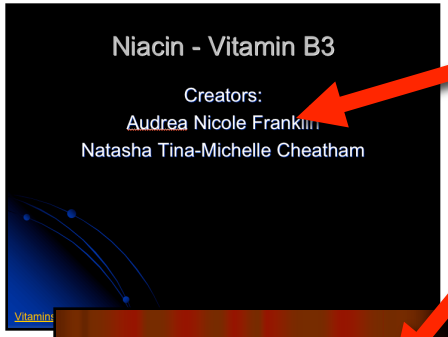
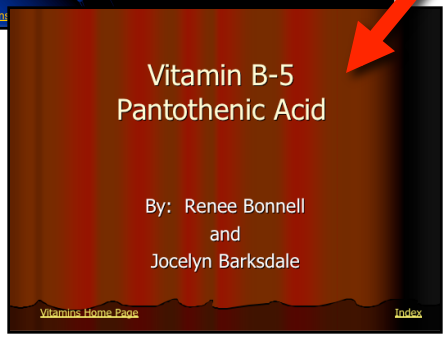

Vitamin C
By:
Leslie Richards
Matt Spaulding
Vitamins Home Page


Niacin - Vitamin B3
Creators:
Audrea Nicole Franklin
Natasha Tina-Michelle Cheatham


Vitamin D
By:
Haley Hughes &
Erika Bandy
Vitamins Home Page


Vitamin B-5
Pantothenic Acid
By: Renee Bonnell
and
Jocelyn Barksdale
Vitamins Home Page
Index


Vitamin B6
Jayme Potts & Natalia Galantini
Vitamins Home Page


Vitamin K
By Future Dieticians
Ashley Clark
Morgan Gentry
Vitamins Home Page

Student Feedback

"I really enjoyed this type of learning. The students were allowed to be creative and learn while having fun. (Of course its not as fun as Dr Deal's class!)"

"I HATE writing papers. That's why I was excited to find out that this project on the vitamins was a power point presentation. I am a visual, auditory, and whatever else learner (I use many methods when I learn new information), so, power points work really well for me because they break everything up into main ideas. As Dr. Deal would say 'The Big Picture'."

"I felt this project really did teach me a lot about (VITAMIN ASSIGNED). Now, when I'm sitting in some of my other Nutrition classes and we begin discussing (X RELATED TO VITAMIN) or (Y RELATED TO VITAMIN) I know what they are talking about."

"I am the type of learner who learns by reading and using my knowledge to explain it to others. I feel that a lot of student[s] might also be this way. This is very beneficial also because everyone usually sometime or another will have to do a presentation in their career. Practice makes perfect and I think that the idea of using presentation skills in college classes can give student a more interactive way of learning instead of just taking notes."

"I enjoyed the assignment very [much] and appreciated completing something 'usefull' for a change. I like that our class created something that is going to last a while and possible be a help to others. I also learned very much about the vitamins through the project."

Peer Reviewed Publication - MERLOT

Material Detail

http://www.merlot.org/merlot/viewMaterial.htm?id=243777

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The Vitamin Project

Send To A Friend

Material Type: Drill and Practice
Cost involved: no
Location: go to material or mirror site
Date Added: March 02, 2007
Date Modified: August 16, 2007

Author: Todd Deal
Georgia Southern University
Submitter: Steve Bonham

About this material:
Peer Reviews (accepted for review)
Comments (none)
Assignments (none)
Personal Collections (2)

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Write a comment
Create an assignment
Log in to add this to a personal collection

Description:
Dr. Todd Deal (Chemistry, Georgia Southern University) used an active learning/peer-teaching project in the Spring of 2006 entitled "The Vitamin Project." The project resulted in a web page (created by Dr. Deal) linked to a dozen courseware projects created by pairs of students. Each of these projects included a Q & A practice module.
I assisted Dr. Deal by offering students a demo and quick and dirty tutorial on Creating Courseware with PowerPoint - a workshop designed for Georgia Southern faculty. Here's the PowerPoint/handout provided to students: CreatingCourseware_w_Ppt.ppt
The feedback from students about this experience was very positive. Here are some student comments:

- "I am the type of learner who learns by reading and using my knowledge to explain it to others. I feel that a lot of students might also be this way. This is very beneficial also because everyone usually sometime or another will have to do a presentation in their career. Practice makes perfect and I think that the idea of using presentation skills in college classes can give student a more interactive way of learning instead of just taking notes."
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