GIBBS – BOSTON
COURSE SYLLABUS

Course Title: Web Integration

Course Number: TC280 MX

Instructor's Name: Robert Kelley

Date: Monday, October 6, 2003

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Credit Hours: 3 Credits

Course Length: 11 Weeks

Contact Hours: 40 Hours

Course Schedule: **Monday 6:00pm –9:40pm Room 402**

Textbook: ***Dreamweaver MX Dynamic Applications*** by Jeffrey Bardzell, Macromedia Press, ISBN 0-321-16680-9

Course Description: This course will focus on the development and design of web pages using the HTML editor Dreamweaver MX. Students will explore various properties of web design, with a focus on building site structures, creating frames and tables, using cascading style sheets, adding video and animation, supporting e-commerce and maximizing browser targeting. Students will work on laboratory exercises designed to assist them in designing and uploading web pages, and will design their own web site as an independent project.

Objectives: Upon completion of this course, students will:
1. Demonstrate knowledge of the Macromedia Dreamweaver MX software in the creation and editing of HTML, DHTML, XHTML, XML, and JavaScript in web design through testing on key terms.
2. Display a working knowledge of dynamic web application development by following tutorials from the text during class lab exercises
3. Apply knowledge of application development by creating a dynamic web application linked to a database for a personal web site project.

Instruction Methods: This course is primarily a laboratory course, although all cooperative learning opportunities will be explored, such as classroom discussions, student projects, and web-based presentations. Emphasis will be placed on developing a basic understanding of dynamic web application development as it is used in information technology industry, and on creating Web Pages that communicate effectively.

Attendance: See Attached Sheet.

Grading: Students' performance shall be determined according to the following criteria:

1. Classroom Tutorials and Projects (40%).
2. Midterm Project (25%).
3. Final Project (25%).
4. Quiz on key terms (10%)

Library Resources and Assignment: The library is a helpful resource for researching topics for your assigned reports. The library staff will assist you in researching their books, periodicals, www.cecybrary.com database, and on the Internet as well. Students can also access the Internet through Library workstations and classroom computers.

Extra Help: Any student who has difficulty in class should see the instructor to schedule an appointment for additional help. Students may also call or e-mail the instructor regarding missed assignments or questions about course material.

Web Integration TC280
Course Outline

WEEK 1   **Lesson 1. The Present and the Future.**
Dreamweaver Review and facebook project

WEEK 2   **Lesson 1. The Present and the Future.**
Lesson 2. Upgrading to XHTML.
Introduce Interface and basics, including Windows, Menus, Tools, Preferences, Site Control, and Help.   Discuss concept of dynamic HTML sites and XHTML

WEEK 3   **Lesson 3. Creating the Presentation Layer.**
Lesson 4. Dynamic Web Sites.
History of dynamic scripting in web design. Understanding the different server models in Ultradev. ASP, JSP and Cold Fusion.

WEEK 4   **Lesson 5. Passing Data Between Pages.**
Lesson 6. Sending Email from a Web Form.
Introduction to form objects. Working with form pages.
Validating and Retrieving form Data. Validating form, numeric and email data. Retrieving form data submitted with the Get Method and Post Method. Retrieving Environmental/Server Variables.

WEEK 5   **Lesson 7. Building a Tour Price Calculator.**
Lesson 8. Databases on the Web.
Creating pages. Collecting, processing and displaying data, Server-side form validation. Creating and connecting to a database. Creating recordset and displaying database information.

WEEK 6   **Lesson 9. Completing the Price Calculator.**
Lesson 10. Filtering and Displaying Data.
Drop Down Menus, Recordset filters, Code commenting
Dynamically generated URL's, preparing output paging, SQL queries.

WEEK 7   **Lesson 11. Building the Tour Descriptions.**
Lesson 12. Building Search Interfaces.
Inserting dynamic images, Recordset paging, passing data to other applications. Preparing a search page, filtering form variables, SQL statements.

WEEK 8   **Lesson 13. Authenticating Users.**
Lesson 14. Managing Content with Forms.
User Authentication, Registration pages, restricting page access.
Creating admin sections, form interface. Inserting Records.

WEEK 9   **Lesson 15. Building Update Pages.**
Lesson 16. Hand-Coding A Basic CMS.
Update pages, edit records, detail pages. Content Management systems, updating and deleting records.

WEEK 10   **Continue Work on Final Projects.**
Students will test basic layouts and will critique preliminary work in class. Students will begin concentrating on final layouts and on increasing browser targeting.

WEEK 11   **FINAL PROJECTS DUE.**
Site Presentations and Classroom Critique.