



**Broward Community College  
Course Outline**

**COMMON COURSE CODE NUMBER:** GRA 2723C

**COURSE TITLE:** Advanced Web Site Design

**CREDIT HOURS:** 3

**CONTACT HOURS BREAKDOWN:**

<b>Lecture/Discussion:</b>	32
<b>Lab</b>	32
<b>Other</b>	_____
<b>Contact Hours/Week</b>	64

**CATALOG DESCRIPTION:**

**Prerequisite:** CGS 1540C

**Co-requisite:** none

This course allows developers, programmers, and designers to visually create and edit data-driven Web sites for multiple server platforms. Developers will use Macromedia UltraDev (or/and another data-driven application) to conceptualize and develop dynamic Web sites. Students should have complete knowledge of graphics, HTML and database management before taking this course.

**UNIT TITLES:**

1. Configuring systems.
2. Creating a database connection.
3. Configuring database connectivity.
4. Creating simple search/results.
5. Defining UltraDev data sources.
6. Creating recordsets.
7. Adding dynamic content.
8. Displaying database records.
9. Creating final web sites for data-driven Web sites for multiple server platforms.

**DATE OF PROPOSAL:** October 27, 2001

Common Course Code No. GRA 2723C

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**LAST REVIEW** Academic Year 2004-2005 **NEXT REVIEW** Academic Year 2009-2010

*Interim Revision Dates:*

## **I. Course Overview:**

Upon completion of this course, the student should be able to conceptualize and develop data-driven Web sites. The student will be able to import database definitions and bind them to a live database connection.

## **II. Units:**

### **Unit 1. Configuring Systems.**

#### General Outcome:

1.0 The student should be able to configure systems for Web servers.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 1.1 Configure Web servers.
- 1.2 Define a local site.
- 1.3 Define a remote site.
- 1.4 Specify an application server.
- 1.5 Specify server technology.
- 1.6 Specify a URL prefix.

## **Unit 2. Creating a Database Connection.**

### General Outcome:

2.0 The student should be able to define database connections.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 2.1 Define database connections.
- 2.2 Use computers for database development.
- 2.3 Setup the local server (localhost).
- 2.4 Configure UltraDev for database connections.
- 2.5 Setup a database.
- 2.6 Create a Data Source Name (DSN).

### **UNIT 3. Configuring Database Connectivity.**

#### General Outcome:

3.0 The student should be able to configure database connectivity.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 3.1 Define driver requirements.
- 3.2 Create a database connection: ColdFusion users.
- 3.3 Create a database connection: JSP users.
- 3.4 Create a database connection: ASP users.

#### **Unit 4. Creating simple search/results.**

##### General Outcome:

4.0 The student should be able to create simple search/results page sets.

##### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 4.1 Create a simple search/results page set.
- 4.2 Prepare the search page.
- 4.3 Define a filtered recordset for the results page.
- 4.4 Add dynamic content to the results page.
- 4.5 View work in the Live Data window.
- 4.6 Add a repeated region to the results page.

## **Unit 5. Defining UltraDev Data Sources.**

### General Outcome:

5.0 The student should be able to define UltraDev Data Sources.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 5.1 Define UltraDev data sources: Overview.
- 5.2 Define a recordset as a data source.
- 5.3 Define browser-submitted data sources for ASP pages.
- 5.4 Define an ASP request variable as a data source.
- 5.5 Define browser-submitted data sources for ColdFusion pages.

## **Unit 6. Creating a Recordset.**

### General Outcome:

6.0 The student should be able to create a recordset.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 6.1 Create a recordset: Overview.
- 6.2 Define a recordset.
- 6.3 Define a recordset without using SQL.
- 6.4 Define a recordset using SQL.
- 6.5 Copy a recordset to another page.
- 6.6 Edit or delete a recordset as a data source.

## **Unit 7. Adding Dynamic Content.**

### General Outcome:

7.0 The student should be able to add dynamic content to web sites.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 7.1 Add dynamic content: Overview.
- 7.2 Make text dynamic.
- 7.3 Add dynamic text.
- 7.4 Modify the appearance of placeholders.
- 7.5 Apply a data format.
- 7.6 Make images dynamic.
- 7.7 Make form objects dynamic.

## **Unit 8. Displaying Database Records.**

### General Outcome:

8.0 The student should be able to display database records.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 8.1 Display database records: Overview.
- 8.2 Create recordset navigation links.
- 8.3 Edit server behaviors on a page.

## **Unit 9. Creating Final Web Sites for Data-Driven Web Sites for Multiple Server Platforms.**

### General Outcome:

9.0 The student should be able to create final web sites for data-driven web sites for multiple server platforms.

### Specific Learning Outcomes:

Upon successful completion of this unit, the student should be able to:

- 9.1 Create final web sites for data-driven web sites.
- 9.2 Test the web site on multiple server platforms.
- 9.3 Debug and edit web sites.