

COURSE OUTLINE

CMSY-175
ColdFusion
3 Semester Hours

HOWARD COMMUNITY COLLEGE

Description

This course shows students how to use the ColdFusion tags and other syntax to create data-driven, dynamic Web sites for such applications as e-commerce and government data-driven Web sites. Prerequisite: CMSY-128 or CMSY-129 AND CMSY-103 or CMSY-110. (3 hours weekly)

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Understand the ColdFusion components, Web server-side processing capabilities, and how they compare with other server-side languages.
2. Use a ColdFusion editor for editing, saving and browsing HTML documents and ColdFusion templates.
3. Manipulate variables and constants with the CFSET tag.
4. Learn to pass data to ColdFusion templates by using URL parameters.
5. Learn to process strings, dates and times and Boolean values with ColdFusion.
6. Understand how to use ColdFusion for program flow control.
7. Design ColdFusion form handlers for processing data entered in Web forms.
8. Use ColdFusion to establish a Web page to database connectivity, and use basic database functionality via the Web site.
9. Use the ColdFusion Application framework for creating and using client, session, and application variables to maintain state.

Major Topics

- I. Tools of and functions of using ColdFusion: ColdFusion Markup Language (CFML), manipulating CF variables with CFSET tag, CF functions to format data and solve problems
- II. Using ColdFusion to work with URL Parameters, Strings, and other Data Types
- III. Managing Flow Control in ColdFusion
- IV. Form Handling in ColdFusion
- V. Database functions with Access and SQL
- VI. Data Retrieval from a database via a Web site using ColdFusion, including establishing an ODBC connection between a Web server and database using ColdFusion Administrator
- VII. Data Maintenance via a Web Page Interface with ColdFusion

VIII. Using CFML to implement Data Validation

IX. Introduction to the ColdFusion Application Framework

Course Requirements

Specific assignments and procedures for evaluating student performance in the class will be described in the individual class syllabus, but will include the following:

1. Lab projects creating ColdFusion documents with the features of each lesson.
2. Written tests on definitions and procedures.
3. Writing and debugging programs with ColdFusion to demonstrate acquired skills.

Other Course Information

This course is a business elective.