

**Common Course Outline**  
**CSIT 226**  
**ColdFusion Development**  
**4 Semester Hours**

**The Community College of Baltimore County**

**Description**

**CSIT 226 – 4 Credits – ColdFusion Development** introduces students to developing web based applications using ColdFusion. Topics include connecting to data sources, session management, server-side includes, templates, and components. Students learn basic CFML tags as well as scripting alternatives. Upon completion students create a database driven dynamic web site using ColdFusion.

**4 credits; 4 lecture hours per week**

**Prerequisite: CSIT 221 and CSIT 111 or consent of the program coordinator**

**Overall Course Objectives**

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

1. describe server-side scripting languages and how ColdFusion executes scripts on a web server;
2. integrate CFML and XHTML within the source code of a web document;
3. create a ColdFusion template;
4. recognize, explain and use variables with the cfset tag;
5. define variable scope and how it effects site development;
6. make decisions using the cfif tag;
7. script functionality using the cfscript tag;
8. use cfquery and SQL to connect to a data source;
9. code a user defined function;
10. define and use a ColdFusion component;
11. use ColdFusion data structures in the development of a web application;
12. build a ColdFusion custom tag; and
13. code a dynamic web site.

**Major Topics**

- I. Introduction
  - a. Create a ColdFusion Template
  - b. Sending Data to the Web Browser
- II. Connecting to databases
  - a. ODBC
  - b. OLEDB

- III. Using Variables
  - a. Variable Scope
  - b. The cfset tag
  - c. The cfoutput tag
- IV. Conditions
  - a. cfif, cfelse, cfelseif
- V. Common ColdFusion functions
- VI. Loops
  - a. The For loop and cfloop
  - b. Query loops
- VII. Data Structures
  - a. Lists
  - b. Arrays
- VIII. Session Management and Security
- IX. Web Application Development
  - a. Debugging Techniques
  - b. Error Management
  - c. Improving Web Application Performance

### **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

- 2 Exams
- 5 Projects
- 1 Final Web Site Project

### **Other Course Information**

This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

This is an elective course for the Web Development option of the Information Technology Degree Program.