Computer Programming Department
Business/Public Service Division
GREENVILLE TECHNICAL COLLEGE

COURSE SYLLABUS

Academic Year: 2010-2011

Course Number: CPT 238

Course Title: Internet Scripting

Lecture hours per week: 3.0 **Semester credit hours:** 3.0

Prerequisite: CPT 113, CPT 186, and IST 237

Catalog course description: This course covers Internet programming including the syntax of scripting languages and Internet programming concepts and examines topics related to client-side scripting languages programming as well as introducing topics related to server-side scripting.

Purpose of the course: This course introduces the student programming concepts that involve the integration of client-side and server-side scripts into web pages. The emphasis of the course is on client-side scripting where client-side scripts are used to create dynamic web pages that respond to user input. Client-side scripting topics will include script integration, language syntax, data storage, control structures, functions, and procedures. Server-side scripting topics will include Active Server Pages (ASP), request and response objects and the integration of databases.

Required text(s) or other materials:

1. Murach's PHP and MySQL; Joel Murach and Ray Harris; Mike Murach & Associates, Inc.; ISBN-13: 978-1-890774-56-1
2. Access to an Internet-capable computer system.
3. NOTE: Students in traditional classes must access Blackboard for course-related information. Students in hybrid and online classes will access their online content through Blackboard.

COLLEGE-WIDE STUDENT LEARNING OUTCOMES

1. Communication – Students will demonstrate the ability to use active reading and listening skills and to produce effective written and oral communication for varying audiences.

2. Information Technology and Technological Literacy – Students will demonstrate competency in using computer technology within a field of study.

3. Critical Thinking/Reasoning – Students will demonstrate the ability to apply the scientific method, mathematical processes, and research skills to analyze and solve problems/issues by using reflection and reasoning to justify conclusions.

4. Professional and Personal Responsibility – Students will demonstrate the ability to exhibit conduct, attitudes, and etiquette appropriate to the student's community and chosen career. Students will demonstrate the ability to manage time, to use effective interpersonal skills, and to display responsible behavior.

5. Diversity – Students will demonstrate the ability to recognize diversity and to demonstrate respectful conduct and attitudes toward all. Students will demonstrate the ability to explain how global issues impact life, work, and opportunities.

Approved March 26, 2009

COMPUTER PROGRAMMING PROGRAM LEVEL STUDENT LEARNING OUTCOMES

Upon successful completion of the CPT/Programming program, the graduate will be able to:

1. Students will be able to analyze, design, develop, and document solutions that will satisfy the information needs of business users using established design methodologies and standards.

2. Students will be able to design, create, test, and document logical programming solutions to prescribed specifications following established standards and using current development environments and languages for application development and database management.

3. Students will be able to demonstrate the knowledge and ability to install and maintain microcomputer hardware and operating system software.

4. Students will be able to demonstrate the use of a minimum of three business application software packages.

5. Students will be able to demonstrate fundamental team building, project management, and presentation skills by participating in team projects that include team goals and values, a development methodology for documentation and coding, group presentations, and exposure to topics such as diversity, time management, and goal setting.

6. Students will be able to demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing "hands-on" computer lab assignments.

CPT 238 COURSE OUTCOMES

Students who successfully complete this course will have demonstrated the skills necessary to accomplish the following objectives with a minimum competency of 70 percent.

1. Students will be able to demonstrate basic knowledge of PHP and MySQL.

2. Students will be able to demonstrate the ability to write, execute, and debug PHP for imbedding in web pages.

3. Demonstrate the use of basic PHP syntax including variable declaration and use, functions and constructor functions, loops statements, decision statements, and arrays.

4. Demonstrate the use of basic MySQL database structure for use with PHP.

The objectives of the CPT 238 course are intended to meet the CPT/Programming program level student learning outcomes

CPT 238 – Main Topics

Chapter 1: Introduction to web development with PHP
Appendix A: How to install the software and source code for this book (PC)
Appendix B: How to install the software and source code for this book (Mac)
Chapter 2: How to code a PHP application
Chapter 3: Introduction to relational databases and MySQL
Chapter 4: How to use PHP with a MySQL database
Chapter 5: How to use the MVC pattern to organize your code
Chapter 6: How to test and debug a PHP application
Chapter 7: How to work with form data
Chapter 8: How to code control statements
Chapter 9: How to work with strings and numbers
Chapter 10: How to work with dates
Chapter 11: How to create and use arrays
Chapter 12: How to work with cookies and sessions
Chapter 13: How to create and use functions
Other chapters and topics may be covered at the instructor's discretion.

COMPREHENSIVE FINAL EXAM

SPECIAL NOTE TO ONLINE STUDENTS: The final exam for online students will be administered on the Barton Campus and will be scheduled at a time determined by the department.

CPT 238 – Course Specific Requirements

Students in CPT238 will be expected to download and install XAMPP on their computers. Students must be able to access the Internet with their personal computers in order to do Lab Assignments.

CPT 238 – Evaluation and Grading Information

GRADING POLICY

Lab Assignments	35 percent
Tests	35 percent
Final Exam	30 percent

NOTE: ALL TESTS AND EXAMS ARE RETAINED BY THE INSTRUCTOR.

Lab assignments count 35 percent of the student's overall grade in CPT238.

1. Programming assignments will be assigned from selected chapters.
2. The following factors will be considered in grading assignments:
   a. The programs must work correctly and produce the desired results.
   b. The programs must be written in the style described in the text or described in class.
   c. The programs must be written using the syntax discussed in class and textbook.
   d. Program documentation should be clear, meaningful, and professional.

All labs, assignments, tests, and exams for this course must be completed and submitted to the instructor by the due date established in order to receive credit for the assignment.

Final letter grades will be issued as follows:

A	=	90 - 100
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	0 - 59

READ THIS SYLLABUS CAREFULLY

You should read this syllabus carefully and ask your instructor about *any* aspects that you do not understand. The syllabus is an agreement between you and your instructor concerning course objectives, course content, grading, and other policies and procedures particular to this course. The above information is specific to the course. Three additional documents are provided as attachments and *are considered a part of this syllabus*:

Attachment I:

Each instructor will provide a supplement to this syllabus. The supplement will include: a week-by-week plan of instruction based on the section in which you are enrolled; your instructor's name, office hours and/or office location; and your instructor's contact information and recommended best methods to contact your instructor.

Attachment 2:

The Department responsible for developing and teaching has policies and procedures in place to assure quality instruction for all students. These are attached as "Departmental Policies and Procedures."

Attachment 3:

Please note that it is your responsibility to read the current Student Handbook included in Greenville Technical College's Catalog. (See website.) The Student Handbook addresses specific academic and student conduct policies and procedures. Excerpts from the Student Handbook representing the policies and procedures most often referred to in working with students are provided for your convenience as "Attachment 3."

Approved by: _____

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Date

This syllabus will remain in effect until revised or reviewed no later than August 2012.