

COURSE INFORMATION

Course Prefix/Number: CPT 238
Course Title: Internet Scripting
Lec Hours/Week: 3.0
Lab Hours/Week: 0.0
Credit Hours/Semester: 3.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

Course Description

This course is a study of Internet programming including the syntax of scripting languages and Internet programming concepts and examines topics related to client-side scripting language programming as well as introducing topics related to server-side scripting.

Course Competencies

Upon successful completion of this course, the student should be competent to complete the following tasks:

Module 1 – Introduction to Scripting

- Describe the purpose of scripting languages
- Write scripts that obtain user input and produce output
- Create scripts containing decisions and loops
- Recognize the difference between scalar and list context in a Perl script
- Manipulate data in an array

Module 2 – Subroutines, Filehandles, and Hashes

- Define and invoke subroutines
- Explain the use of private subroutine variables
- Produce input and output with Perl's built-in filehandles – STDIN, STDOUT, and STDERR – and user-defined filehandles
- Explain the differences between an array and a hash
- Write scripts which manipulate the values in a hash

Module 3 – Regular Expressions

- Match specified patterns with regular expressions
- Include metacharacters, character classes, quantifiers, option modifiers, and anchors in regular expressions
- Modify text with the substitution operator
- Break scalar text into array elements with the split operator

Module 4 – Control Structures and File Operations

- Write scripts which use the while, unless, until and for control structures
- Create logical expressions with the && and || operators
- Perform file tests to view file properties
- Write scripts to modify file properties

Minimal Standards

Students in the Web Programming Certificate program must earn at least a C in this course.

Course Requirements

Students are responsible for attending all scheduled class meetings until they have completed all course requirements. Students are responsible for all material covered and for all assignments made in all classes. Students who are absent from a class more than 20% of the hours assigned will be withdrawn. Any student caught cheating or involved in other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action.

Evaluation Strategies/Grading

Module 1	Module 3	Grading Scale	
Test – 12.5%	Test – 12.5%	90 – 100	A
Homework and Programs – 12.5%	Homework and Programs – 12.5%	80 – 89	B
Module 2	Module 4	70 – 79	C
Test – 12.5%	Test – 12.5%	60 – 69	D
Homework and Programs – 12.5%	Homework and Programs – 12.5%	Below 60	F

Entry Level Skills

A student entering this course should have a strong programming background.

Prerequisites: CPT 232 or CPT 236 with minimum grade of C.

Co-requisites: None