# HTTP 5212 - Web Development Lab 2

## Module 1 - Course Introduction/PHP

Course Outline, Assignments and Policies Review

Review of PHP

Server Side Development Environment (FTP, MySQL, PHPMyAdmin)

Sample PHP File

Natural evolution of website technology

Codecademy: PHP - Introduction to PHP ✓

<https://www.codecademy.com/courses/learn-php/lessons/intro-php>

GitHub: php-introduction ✓  
<https://github.com/codeadamca/php-introduction>

GitHub: big-picture ✓  
<https://github.com/codeadamca/php-big-picture>

Video: Introduction to PHP, Creating and Testing Files

<https://www.youtube.com/watch?v=iSxuz4Z0x6o>

Video: PHP The Big Picture

<https://www.youtube.com/watch?v=Z-RBkW2E8cc>

Video: Setting up MAMP

<https://www.youtube.com/watch?v=gDfUT0Bm2m4>

## Module 2 - PHP Output and Variables

Using the PHP echo command

Using variables and arrays in PHP

PHP global variables ($\_POST, $\_GET, $\_SESSION, $\_COOKIE, $\_SERVER)

Exercise 1: PHP Links and Variables

Codecademy: PHP - Variables ✓  
[https://www.codecademy.com/courses/learn-php/lessons/php-strings-and-variables/](https://www.codecademy.com/courses/learn-php/lessons/php-strings-and-variables/exercises/strings)

[https://www.codecademy.com/courses/learn-php/lessons/php-numbers/](https://www.codecademy.com/courses/learn-php/lessons/php-numbers/exercises/numbers)

GitHub: php-output ✓  
<https://github.com/codeadamca/php-output>

GitHub: php-variables ✓  
<https://github.com/codeadamca/php-variables>

GitHub: php-arrays  
<https://github.com/codeadamca/php-arays>

GitHub: php-contact-form  
<https://github.com/codeadamca/php-contact-form>

GitHub: php-login-form  
<https://github.com/codeadamca/php-login-form>

Video: PHP and Output

<https://www.youtube.com/watch?v=lhRkHjqE9GQ>

Video: PHP and Variables

<https://www.youtube.com/watch?v=fwWIKwF66IM>

Video: PHP and Arrays

<https://www.youtube.com/watch?v=Vk_2yrazhjk>

## Module 3 - PHP Control Structures

Using PHP if and switch statements

True/false Kahoot!

Exercise 2: PHP Links and If Statements

Codecademy: PHP - Conditions and Login in PHP ✓

[https://www.codecademy.com/courses/learn-php/lessons/booleans-and-comparison-operators/](https://www.codecademy.com/courses/learn-php/lessons/booleans-and-comparison-operators/exercises/if-statements)

[https://www.codecademy.com/courses/learn-php/lessons/logical-operators-and-compound-conditions/](https://www.codecademy.com/courses/learn-php/lessons/logical-operators-and-compound-conditions/exercises/nested-conditional-statements)

GitHub: php-if-switch  
<https://github.com/codeadamca/php-if-switch>

Video: PHP and Control Structures

<https://www.youtube.com/watch?v=81kE9pQHssQ>

## Module 4 - PHP Loops and Functions

Using PHP for and while loops

Count the loops Kahoot!

Using an API server side

Using PHP curl

Exercise 3: PHP Links and Loops

Assignment #1 – PHP and MySQL

Codecademy: PHP - Loops ✓

<https://www.codecademy.com/courses/learn-php/lessons/php-loops>

[https://www.codecademy.com/courses/learn-php/lessons/php-loops-in-html/](https://www.codecademy.com/courses/learn-php/lessons/php-loops-in-html/exercises/why-use-shorthand)

Codecademy - Functions ✓

[https://www.codecademy.com/courses/learn-php/lessons/introduction-to-php-functions/](https://www.codecademy.com/courses/learn-php/lessons/introduction-to-php-functions/exercises/defining-functions)

<https://www.codecademy.com/courses/learn-php/lessons/intro-to-built-in-php-functions/>

GitHub: php-for-while  
<https://github.com/codeadamca/php-for-while>

GitHub: php-functions  
<https://github.com/codeadamca/php-functions>

Video: PHP and Loops

<https://www.youtube.com/watch?v=uZ7mq8Yjj3o>

Video: PHP and User Defined Functions  
<https://youtu.be/ZGyXBm37yCw>

## Module 5 - PHP, MySQL, and SQL

Creating a MySQL database

PHPMyAdmin and SQL

MySQLi and PDO

GitHub: php-sql-mysql  
<https://github.com/codeadamca/php-sql-mysql>

Video: MySQL and PHP  
<https://www.youtube.com/watch?v=szdud5z4AhM>

## Module 6 - PHP CMS

Login, Dashboard, and Lists

CRUD - Create, Read, Update, Delete

GitHub: php-cms

<https://github.com/codeadamca/php-cms>

Video: Creating a PHP CMS - Step 1 - Creating MySQL Tables

<https://www.youtube.com/watch?v=JO6RB-EDhYI>

Video: Creating a PHP CMS - Step 2 - Creating Asset Files

<https://www.youtube.com/watch?v=_y11vhhtIOA>

Video: Creating a PHP CMS - Step 3 - Adding a Basic Login Process

<https://www.youtube.com/watch?v=dK7JqYRicw4>

Die: Assignment #1 - PHP and MySQL

Assignment #2 – PHP CMS

## Module 7 - PHP CMS Front End

Creating the CMS front end

Creating a PHP CMS - Step 4 - Adding Messages

<https://www.youtube.com/watch?v=V29_JR7UE9k>

Creating a PHP CMS - Step 5 - Manage Users CRUD

<https://www.youtube.com/watch?v=6jU_FpL3Cws>

Creating a PHP CMS - Step 6 - Manage Projects CRUD

<https://www.youtube.com/watch?v=G_Ex3STgS5M>

Creating a PHP CMS - Step 7 - Upload Project Images

<https://www.youtube.com/watch?v=5lV_ig4jh-c>

## Module 8 - PHP and APIs

Using PHP with APIs

The Google Books API

Integrating an API into the PHP CMS

Outputting CMS content as JSON

Video: Google Books API  
<https://developers.google.com/books>

Video: Spotify API  
<https://developer.spotify.com/documentation/web-api/>

Video: Rapid API  
<https://rapidapi.com/japerk/api/text-processing/>

## Module 9 - Introduction to Laravel

MAMP, Composer, Laravel

Laravel Installation

Due: Assignment #2 – PHP CMS

Assignment #3 – Laravel CMS/API

Video: Introduction to Laravel

## Module 10 - Laravel Migrations and Seeding

Eloquent and the database  
Laravel and MVC

Video: Setting up a Database using Laravel and Eloquent Migration  
Video: Seed your Database with Sample Content using Laravel Eloquent

## Module 11 - Laravel CMS Front End

Login, Dashboard, and Lists

Video: Creating an Admin Dashboard

Video: Adding the Login Process

## Module 12 - Laravel API

CRUD - Create, Read, Update, Delete  
Creating a Laravel API

Video: Creating a Read/List Page  
Video: Deleting a Type

Video: Create an Add Form to Add Types  
Video: Create an Edit Form to Edit a Type

## Module 13 - Final Assignment Q&A

Lab time for final assignment

Question period

## Module 14 - Final Assignment Q&A

Lab time for final assignment

Question period

Due: Assignment #3 – Laravel CMS/API