

Course Objectives/Course Outline
Spokane Community College

Course Title: PHP I
Prefix and Course Number: CIS 230

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Understand PHP Fundamentals
- Build a page using the Model-View-Controller (MVC) approach
- Display content using a view and the Blade templating engine
- Navigate between pages using routes
- Handle request and send responses
- Use controllers and models
- Create, retrieve, update and delete data from a database

Course Outline:

- I. Review of PHP Fundamentals
 - A. General Types
 - B. Functions
 - C. Strings
 - D. Arrays
 - E. Classes & Objects
 - F. Operators & Control Structures
- II. Model-View-Controller (MVC) Basics
- III. Views & Blade Templating Engines
- IV. Working with Routes
 - A. The Laravel Request Flow
 - B. Creating Routes
 - C. Navigation and Route Names
 - D. Passing Route Parameters
 - E. Creating and Using POST Routes
 - F. Structuring Routes with Route Groups
- V. Handling Requests & Responses
 - A. Handling POST Requests with Dependency Injection
 - B. Dependency Injection vs Facades
 - C. Protecting Against CSRF Attacks
 - D. Using Sessions to store data
- VI. Using Controllers
 - A. Creating a Controller
 - B. Adding Methods to the Model
 - C. Using Validation in Controllers
- VII. Connect to a Database
- VIII. Models & Migration
 - A. Creating a Model
 - B. Understanding Eloquent Models
 - C. Introducing Migrations

- D. Writing Migration Files
- IX. Database Queries and Seeding Data
 - A. Fetching data from the database
 - B. Saving data to the database
 - C. Updating data in the database
 - D. Deleting data from the database