Hagerstown Community College OFFICIAL MASTER SYLLABUS DOCUMENT

COURSE: WEB 115 Web Developer I **3 Credits**

INSTRUCTOR: DATE: Spring 2018

COURSE DESCRIPTION:

This introductory web programming class teaches students server-side scripting technologies to create web applications. The primary focus is on the PHP Hypertext Preprocessor (PHP) language, the Apache web server and MySQL relational database server. Students will learn strategies for creating basic content management systems, designing databases in web environments and creating login, data collection, registration, and search functions for web sites. Course fee required. Prerequisite: WEB 101 or consent of TCS Division. Semesters offered: Spring. 3 Credits.

TEXTBOOK:

• PHP for the Web: Visual Quickstart Guide, 4th Edition, Larry Ullman. O'Reilly Press. ISBN: 978-0-321-73345-0

STUDENT LEARNING OUTCOMES:

- Students will demonstrate technical proficiency in HTML by creating code that validates, correctly incorporates all necessary code, follows semantic design and universal accessibility principles, is SEO friendly and is handicap accessible and 508 compliant.
- Students will show technical proficiency in PHP by creating server-side scripts that generate no errors and accomplish project goals.
- Students will show technical proficiency in SQL by creating databases that adhere to the normal forms and meet the needs of server-side scripting website goals.
- Students will evaluate and employ safe and legal computing practices including securing computers against theft and cybercrime, properly using logins and passwords, securing and archiving files, identify the legal issues of copyright and appropriately use copyrighted material in their projects.
- Students will demonstrate problem solving skills by analyzing, selecting and applying tools appropriate for a specific solution

MINIMUM CLOCK HOURS REQUIRED FOR THIS COURSE

To earn one academic credit at HCC, students are required to complete a minimum of 37.5 clock hours (45 fifty-minute "academic" hours) of coursework per semester. Those hours of coursework may be completed through a combination of hours within the classroom and hours outside the classroom. Certain courses may require more than the 37.5 minimum hours of coursework per credit. For most classes, students should expect to do at least 2 hours of coursework outside of class for each hour of in-class coursework.

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	DIRECT Faculty Instruction In-	Student Work Out of Classroom
	class	225 h required
	112.5 h required	_
Classroom Instruction	37.5	75
Book Chapters	75	150
Total Hours	112.5 h	225 h

Services for Students with Disabilities: Students may receive reasonable accommodations if they have a diagnosed disability and present appropriate documentation. Students seeking accommodations are required to contact the Disability Support Services (DSS) office as early as possible. Students may contact a DSS staff member for an appointment at dss@hagerstowncc.edu or at 240-500-2530.

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