

Program Information Report

Broadcast, Communication, Visual, Digital & Fine Arts

Server-side Web Developer (CTWBSD)

Certificate

Program Effective Term: Fall 2019

High Demand Occupation High Skill Occupation High Wage Occupation

This program is designed for students interested in employment as Server-side Web Developers. Students will create standards-compliant, accessible and usable Web interfaces that meet both user and client needs.

Articulation:

Eastern Michigan University, several BS degrees.

Program Admission Requirements:

College-level reading and writing

Major/Area Requirements		(11 credits)
CPS 276	Web Programming Using Apache, MySQL, and PHP	4
WEB 230	Advanced JavaScript	4
Elective	Any WEB, CIS or CPS course	3-4

Minimum Credits Required for the Program: **11**

PROGRAM PROPOSAL FORM

Final Approval – Check here when completing this form after the Vice President for Instruction has given preliminary approval to a program proposal. For final approval, complete information must be provided for each item.

<p>Program Name:</p> <p>Division and Department:</p> <p>Type of Award:</p> <p>Effective Term/Year:</p> <p>Initiator:</p>	<p><u>Server-side Web Developer</u></p> <p><u>Digital Media Arts / Business & Computing Technologies</u></p> <p><input type="checkbox"/> AA <input type="checkbox"/> AS <input type="checkbox"/> AAS <input checked="" type="checkbox"/> Cert. <input type="checkbox"/> Adv. Cert. <input type="checkbox"/> Post-Assoc. Cert. <input type="checkbox"/> Cert. of Comp.</p> <p><u>Fall 2019</u></p> <p><u>Scott Shaper</u></p>	<p>Program Code:</p> <p>CIP Code:</p> <p>CTWBSD 11.0801</p>
<p>Program Features</p> <ul style="list-style-type: none"> • Program's purpose and its goals. • Criteria for entry into the program, along with projected enrollment figures. • Connection to other WCC programs, as well as accrediting agencies or professional organizations. • Special features of the program. 	<p>Program purpose and goals: This is a short certificate focused on the skills needed for employment as a server-side Web developer.</p> <p>Program admission requirements: College-level reading and writing.</p> <p>Articulation: Various B.S. degrees at EMU</p> <p>Special features: Most courses will be available as both mixed mode and online (WEB 100 is online-only).</p>	
<p>Need</p> <p>Need for the program with evidence to support the stated need.</p>	<p>The WEB Advisory Board has continued to indicate a need for shorter server-side Web Developers. Our challenge up to this point has been getting students through longer certificates that include these skills; few of them complete all the courses. With that in mind, a shorter certificate focused just on Server-side Web Development is likely to achieve higher completion rates. Offering the entire curriculum online is also likely to attract more students into the program and could boost completion rates. Based on research from our sabbaticals (Jason Withrow and Kelley Gottschang) there is a need for short, layered certificates in our industry.</p>	
<p>Program Outcomes/Assessment</p> <p>State the knowledge to be gained, skills to be learned, and attitudes to be developed by students in the program.</p> <p>Include assessment methods that will be used to determine the effectiveness of the program.</p>	<ol style="list-style-type: none"> 1. Identify appropriate use of PHP programming basics 2. Identify rational database design and MySQL database server fundamentals 3. Demonstrate sound software engineering techniques in the development of server-side web programs. 4. Utilize advanced JavaScript fundamentals, Node.js, AJAX and MVC architecture in the development of server-side web programs. 	<ol style="list-style-type: none"> 1. Departmental exam 2. Departmental exam 3. Programming exercise 4. Programming exercise

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<p>Curriculum</p> <p>List the courses in the program as they should appear in the catalog. List minimum credits required. Include any notes that should appear below the course list.</p>	<p>CPS 276: PHP and MySQL (4 credits) WEB 100: Working in the Web Industry (2 credits) WEB 230: Advanced JavaScript (4 credits) Minimum Credits Required: 10 <i>11-12</i> <i>Any WEB, CIS or CPS course 3-4</i></p>																							
<p>Budget</p> <p>Specify program costs in the following areas, per academic year:</p>	<table border="1"> <thead> <tr> <th></th> <th>START-UP COSTS</th> <th>ONGOING COSTS</th> </tr> </thead> <tbody> <tr> <td>Faculty</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Training/Travel</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Materials/Resources</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Facilities/Equipment</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Other</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>TOTALS:</td> <td>0.00</td> <td>0.00</td> </tr> </tbody> </table>				START-UP COSTS	ONGOING COSTS	Faculty	0.00	0.00	Training/Travel	0.00	0.00	Materials/Resources	0.00	0.00	Facilities/Equipment	0.00	0.00	Other	0.00	0.00	TOTALS:	0.00	0.00
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<p>Program Description for Catalog and Web site</p>	<p>This program is designed for students interested in employment as Server-side Web Developers. Students will create standards-compliant, accessible, and usable Web Interfaces that meet both user and client needs.</p>																							
<p>Program Information</p>	<p>Accreditation/Licensure – None Advisors – Scott Shaper, Jason Withrow, Kelley Gottschang Advisory Board – WEB Advisory Board Admission requirements – College-level reading and writing Articulation agreements – Various B.S. degrees at EMU Continuing eligibility requirements – None</p>																							

Assessment plan:

Program outcomes to be assessed	Assessment tool	When assessment will take place	Courses/other populations	Number students to be assessed
1. Identify appropriate use of PHP programming basics	Departmental exam	Fall 2022	CPS 276	All
2. Identify rational database design and MySQL database server fundamentals	Departmental exam	Fall 2022	CPS 276	All
3. Demonstrate sound software engineering techniques in the development of server-side web programs.	Departmental exam	Fall 2022	CPS 276	All
4. Utilize advanced JavaScript fundamentals, Node.js, AJAX and MVC architecture in the	Programming exercise	Fall 2022	WEB 230	All

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development of server-side web programs.				
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Scoring and analysis plan:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally-developed rubric, external evaluation, other). Attach the rubric.

**Outcomes 1 - 3 will be scored using an answer key
Outcome 4 will be scored using departmentally-developed rubric**

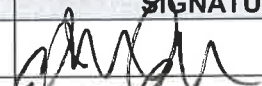
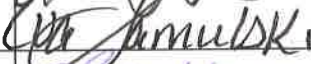
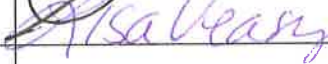

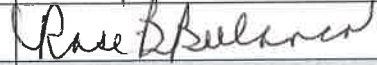
2. Indicate the standard of success to be used for this assessment.

Outcomes 1 - 3: At least 70% of students will correctly answer 70% of the indicated exam questions.

Outcome 4: At least 70% of students will score 80% or higher on the appropriate rubric item(s).

3. Indicate who will score and analyze the data.

WEB full-time faculty will score and analyze the data.

REVIEWER	PRINT NAME	SIGNATURE	DATE
Department Chair/Area Director	Ingrid Ankerson		12/3/18
Dean	Eva Samulski		12-4-18
Curriculum Committee Chair	Lisa Veasey		12/6/18
Vice President for Instruction <input type="checkbox"/> Approved for Development <input type="checkbox"/> Final Approval	Kim Hurns		12/7/18
President	Rose Bellanca		1/3/19
Board Approval			3/26/19

logged 2/5/19 for