# Web Design Course No. 10201 Credit: 1.0

|  |  |  |  |
| --- | --- | --- | --- |
| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes:Programming & Software Development (11.0201); Media Arts, Web, and Design (11.0801); Business Management & Entrepreneurship (52.0799); Marketing (52.1402)

Course Description: **Technical Level:** Web Design courses teach students how to design web sites by introducing them to and refining their knowledge of site planning, page layout, graphic design, and the use of markup languages-such as Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model-to develop and maintain a web page. These courses may also cover security and privacy issues, copyright infringement, trademarks, and other legal issues relating to the use of the Internet. Advanced topics may include the use of forms and scripts for database access, transfer methods, and networking fundamentals.

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Understand core principles of web design

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Explain the features and functions of Web browsing software. |  |
| 1.2 | Explain the features and functions of Web page design software. |  |
| 1.3 | Demonstrate how to use features and function of web design software. |  |
| 1.4 | Describe how bandwidth affects data transmission and on-screen image. |  |
| 1.5 | Compare and contrast clients and servers. |  |
| 1.6 | Identify and explain how different user agents (browsers, devices) affect the digital communication product. |  |
| 1.7 | Demonstrate knowledge of available graphics, video, motion graphics, web software programs. |  |
| 1.8 | Demonstrate knowledge of how to use a scripting language to program a site. |  |
| 1.9 | Use available reference tools as appropriate. |  |

## Benchmark 2: design technical proficiency

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Create and produce content. |  |
| 2.2 | Create and refine design concepts. |  |
| 2.3 | Identify, utilize and create reusable components. |  |
| 2.4 | Apply color theory when selecting appropriate colors. |  |
| 2.5 | Apply knowledge of typography |  |
| 2.6 | Apply principles and elements of design. |  |
| 2.7 | Evaluate visual appeal. |  |
| 2.8 | Demonstrate knowledge of HTML, XHTML, and CSS. |  |
| 2.9 | Demonstrate knowledge of how to use a scripting language to program a site. |  |

## Benchmark 3: Understand project workflow

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Develop flowchart, navigational blueprints and schema. |  |
| 3.2 | Create sample design showing placement of buttons/navigational graphics and suggested color scheme. |  |
| 3.3 | Develop storyboards. |  |
| 3.4 | Define scope of work to achieve individual and group goals. |  |
| 3.5 | Use available reference tools as appropriate. |  |
| 3.6 | Create a portfolio of projects that shows growth over time, add class artifacts to the (IPS) Individual Plan of Study electronic portfolio. |  |

## Benchmark 4: Professionalism and ethics

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Explain the importance of web standards. |  |
| 4.2 | Explain the importance of ethical colors. |  |
| 4.3 | Demonstrate knowledge of how to use a scripting language to program a site. |  |
| 4.4 | Describe the function of a non-disclosure agreement (NOA). |  |
| 4.5 | Differentiate between copyright and trademarks. |  |
| 4.6 | Explain the concept of intellectual property. |  |
| 4.7 | Demonstrate knowledge of basic web application security. |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

CTE Pathways Help Desk

(785) 296-4908

pathwayshelpdesk@ksde.org



900 S.W. Jackson Street, Suite 102

Topeka, Kansas 66612-1212

[https://www.ksde.org](https://www.ksde.org/)

The Kansas State Department of Education does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities and provides equal access to any group officially affiliated with the Boy Scouts of America and other designated youth groups. The following person has been designated to handle inquiries regarding the nondiscrimination policies: KSDE General Counsel, Office of General Counsel, KSDE, Landon State Office Building, 900 S.W. Jackson, Suite 102, Topeka, KS 66612, (785) 296-3201.