

CS 129 – Introduction to Web Page Design

Credit Hours: 3

Scheduled hours per week

Lecture: 3

Lab:

Other:

Catalog Course Description: Students will learn how to design and implement web sites using the latest industry HTML and CSS standards, and provide dynamic interactivity with JavaScript.

Pre-requisites: CS 101 must be passed with a grade of C or better or taken concurrently

Co-requisites: CS 101 must be passed with a grade of C or better or taken concurrently

Course Learning Outcomes:

Students should have an understanding of and be able to apply the following concepts:

- Design and implement a website using HTML5, CSS, and JavaScript

Topics to be studied:

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| <ul style="list-style-type: none"> • Introduction to the Internet and Web Design • Building a Webpage Template with HTML5 • Links and Images • Applying CSS Styles to Webpages • Designing for Mobile Devices • Designing for Tablets and Desktops | <ul style="list-style-type: none"> • New Page Layouts • Creating Tables and Forms • Integrating Audio and Video • Interactivity with Social Media and JavaScript • Publishing and Promoting a Website • Maintaining a Website |
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Relationship of Course to Program or Discipline Learning Outcomes:

Computer Science

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| ✓ | Ability to understand and use elements of good programming style and best practices |
| | Understanding of programming paradigms, such as imperative, functional, and object oriented design |
| ✓ | Ability to understand and use variables with different data types and control structures |
| ✓ | Ability to perform top-down design, use modular programming, string processing, elementary data structures, basic disk I/O, and recursion |
| | Ability to use data structures and algorithms to represent data relationships, data manipulation, searching, sorting, and solving complex problems |
| | Ability to design, configure, troubleshoot, and manage database tables, normalize data, and store and retrieve object attributes in a database |

For general education courses, a listing of the general education competencies that are met.)

| Relationship of Course to General Education Learning Outcomes: | |
|---|---|
| Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements. | ✓ |
| Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions. | ✓ |
| Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts. | ✓ |
| Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication. | |
| Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills. | |
| The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art. | ✓ |
| 5/3/2016 | |

Special requirements of the course:

You will need a computer with an Internet connection

Additional information:

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