

Narrative

Web Design Certificate of Achievement

Program Goals and Objectives

Web Design certificate is a vital skill in today's technology-based world. Web Design Certificate program covers a variety of topics, such as Introduction to computer science, HTML and Java Script programming, Programming in Java, Server Side , and Client side programming. The field of web design encompasses several job titles and functions, and choosing a career in web design starts with selecting the area of web design in which you want to work. Whether you want to be a web designer, a web developer or a web programmer, a career in web design requires basic technical and graphics skills that can be learned through a degree program.

Catalog Description

This program helps design and develop applications and scripts for the World Wide Web (WWW). Web programmers need to be knowledgeable on a variety of Internet technologies (HTML, CSS, XML, JavaScript, Java, PHP, AJAX, and SQL), and database management system. They are chiefly responsible for providing the programming which makes web pages interactive or allows users to interact with back-end applications and databases. Web programmers are instrumental in making electronic commerce on the Internet possible.

The Program Student Learning Outcomes

Students completing the Web Design Certificate of Achievement will be able to:

- design and develop applications and scripts for the World Wide Web
- provide programming and database management systems.

Program Requirements

The course requirements for the Web Design Certificate of Achievement include the following courses.

Web Design Certificate of Achievement

Requirements	Dept. Number	Title	Units	Sequence
Required Core Complete (Five Courses)	CS M10DBM	Database Management Systems and Applications	3	Yr. 1, Fall
	CS M10J	Introduction to Computer Programming Using Java	4	Yr. 1, Fall
	CS M15W	Client Side Web development using HTML/JavaScript	3	Yr. 1, Spring
	CS M16PH	Server-side Development using PHP	3	Yr. 2, Fall
	CSM10P	Introduction to Computer Programming Using Python Language	4	Yr. 2, Spring

Required Core Total: 17 units

Master Planning

The field of computer science leads to a variety of careers that all require core computer science skills. These skills include theory classes such as Computer Hardware, Data Structures, Databases, and Networks, as well as programming in different computer languages (C++, Java, Python, HTML & Java Script). Thereafter, within the field, areas of specialty lead into careers including software development, project management, system analysis, and maintenance among other areas. With the Internet being an integral part of everyday life, Web page authoring and Web application development have been other areas of high demand in the job market.

After several meetings with the advisory board and IT GUILD, the focus is to prepare our students for the labor Market. One of the main concerns that both had was the ability for students to gain knowledge to be used to obtain a job. This certificate is dedicated to providing students with the needed knowledge to compete in the job market by introducing not just programming to students but also client/server concepts where students have to write code in different languages (Java, HTML, PHP, SQL) in order to create a single application.

Web development is becoming one of the hottest careers for developers who want to start earning significantly higher salary in shorter period. Companies are expecting students to graduate with knowledge not just to write code, but to create applications on both the client side as well as the server side in order to provide their customers with flexibility to use their products on different platforms (PC, Mobile, Web...etc.). Throughout the colleges in our region, several colleges teach web development, but very few offer certification in it. Having a certificate program will encourage students to apply and get the certification as well as give them an advantage over other students when applying for work. Furthermore, employers view a certificate that documents the student's experience and achievement and recognizes the student's commitment to enhance their educational experience very highly.