

Web Services

C. I. D. T.
Computer Information
and Design Technologies

Web Services Technology with Emphasis in Web Design - Certificate

Course	Credit Hours	Contact Hours	Required Prerequisite Or *Co-requisite
COSC 1301 Microcomputer Applications	3	4	READ 0370.
ITNW 2459 Web Server Support and Maintenance	4	6	None
ARTC 1302 Digital Imaging I	3	6	ARTC 1325
ARTC 1353 Computer Illustration	3	6	ARTC 1325
IMED 1316 Web Page Design I	3	6	MATH 0310
IMED 1345 Interactive Multimedia I	3	6	IMED 1301
IMED 2315 Web Page Design II	3	6	IMED 1316 & ARTC 1302
IMED 2345 Interactive Multimedia II	3	6	IMED 1345
Elective	3	3	
ARTC 2388 Internship	3	18	GRPH 2309 & IMED 1345
PROGRAM TOTAL:	31		

The prerequisite of ARTC 1325 for ARTC 1302 will be waived. The prerequisite of GRPH 2309 & ARTC 1353 will be waived. The student must earn a grade of "C" or higher in prerequisite courses.

This program prepares students for jobs such as Web Coordinator and Internet Developer.

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CORE COURSE DESCRIPTIONS

COSC 1301. Microcomputer Applications. Overview of computer information systems. Introduces computer hardware, software, procedures, systems and human resources and explores their integration and application in business and other segments in society. The fundamentals of computer problem-solving and programming in a higher level programming language may be discussed and applied. Credit by exam. This is an academic transfer course. (Formerly ITSC 1301).

ARTC 1302. Digital Imaging 1. Digital imaging using raster image editing and/or image creation software: scanning, resolution, file formats, output devices, color systems, and image-acquisitions.

ARTC 1353. Computer Illustration. Mastery of the tools and transformation options of an industry-standard drawing program to create complex illustrations and follow them through to the color output stage. Includes acquisition of images through scanning and the creative use of clip art. (ARTC 1353 was formerly GRPH 1359.)

IMED 1316. Web Page Design 1. Instruction in web page design and related graphic design issues including mark-up languages, web sites, and browsers. (IMED 1316 was formerly IMED 1416.)

IMED 1345. Interactive Multimedia 1. Exploration of the use of graphics and sound to create interactive multimedia animations using industry standard authoring software. (IMED 1345 was formerly IMED 1445.)

IMED 2315. Web Page Design 2. A study of mark-up language advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites according to accessibility standards, cultural appearance, and legal issues. (IMED 2315 was formerly IMED 2415.)

IMED 2345. Interactive Multimedia 2. Instruction in the use of scripting language to create interactive multimedia projects. Topics include building a user interface, writing script, testing, and debugging. (IMED 2345 was formerly IMED 2445.)

ARTC 2388. Internship – Commercial And Advertising Art. A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. (ARTC 2388 was formerly GRPH 2380.)

ITNW 2459. Web Server Support And Maintenance. Instruction in the installation, configuration, and implementation of web servers and web server operating systems. This includes installing and configuring the Linux OS, the Apache Web Server, the MySQL Database System, and the PHP Scripting Language. The student will install the Linux OS on a computer, configure that computer to act as a Web Server, and create a basic web page which interfaces with the MySQL Database System through scripts written in PHP to provide a Dynamic Web Site to the visitor. (Formerly CPMT1309).