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Academic Year: 2020-2021

IT-Web Programmer Technical Diploma

Program Code 311526

The IT-Web Programmer technical diploma provides learners the ability to integrate web technologies to develop database-driven, interactive and dynamic web sites.

100%
Graduate
Employment

With 100% Employed in
Field

Locations

Offered at the Green Bay campus.
For information: (920) 498-5444.
Toll-free: (888) 385-6982.

This program is fully eligible for financial aid.

Follow Your Path

All credits in this technical diploma apply toward the following associate degree(s):
Web Development, 101522
All credits from the following certificate(s) apply toward this technical diploma:
Web Programmer, 901522
Web Design, 901352



CURRICULUM

The IT-Web Programmer technical diploma is a one-year, three-semester program. Upon graduation, a student will have completed 30 credits.

FIRST SEMESTER

10-890-101 College 101	1
10-152-185 Website Coding	3
10-154-125 IT:Web:Database Development	3
10-152-173 IT:Program:Part 1 (C#)	3
SEMESTER TOTAL	10

SECOND SEMESTER

10-801-136 English Composition 1	3
10-152-184 IT:Web:Programming-SQL	3
10-152-180 IT:Web:Scripting-JavaScript	3
SEMESTER TOTAL	9

THIRD SEMESTER

10-152-182 IT:Web:Scripting-PHP	3
10-804-133 Math & Logic	3
10-152-183 IT:Web:Scripting-ASP.NET	3
10-801-196 Oral/Interpersonal Comm	3
SEMESTER TOTAL	12

TOTAL CREDITS **31**

Curriculum Note

The credit for 10-890-101, College 101 is an Institutional Requirement for graduation. Consequently, it is not part of the program requirements, but must be passed with a C.

Requirements for Program Entry

- Completed application.
- High School transcript or equivalent. (For a list of equivalents, go to www.nwtc.edu.)
- Completed one year of high school algebra or equivalency.
- Computer familiarity and ability to use a keyboard and mouse.
- A minimum keyboarding skill of 30 WPM.
- To be admitted to this program, learners must achieve a prior cumulative high school or college grade point average of 2.6 or higher OR a satisfactory academic skills assessment score. College grade point average must be based on 15 credits or more. To learn more about starting this program, please contact an academic advisor at (920) 498-5444 or (888) 385-6982.

Course Descriptions

10-890-101 COLLEGE 101 ...Students will utilize digital tools and resources to assess, explore, practice, apply, and evaluate both employability and learning skills. By establishing NWTC cultural values as hallmarks of success in academic, career, and personal settings the course encourages reflective, personalized development of a growth mindset and emphasizes the importance of

making wise choices. To maximize the return on investment, students should take this course in their first semester as it identifies key expectations (hidden rules) of higher learning and professional employment.

10-152-185 WEBSITE CODING ...create code for generating the structure, function, and design of static websites using standards-based HTML5 and CSS3; validate code; test multi-browser and multi-device functionality.

10-154-125 IT:WEB:DATABASE DEVELOPMENT ...database uses, database terminology, analyzing information requirements, data models, database design phases, entity relationships, normalization processes, database management systems, database objects, development environments, creating tables, writing queries using SQL, testing.

10-152-173 IT:PROGRAM:PART 1 (C#) ...provides a foundation of syntax/semantics of C# .NET programming language to develop Windows-based/ Web-based applications. Covers the architecture of Microsoft's .NET platform where C# is the native language.

10-801-136 ENGLISH COMPOSITION 1 ...learners develop knowledge/skills in planning, organizing, writing, editing. Students will also analyze audience/purpose, use elements of research, format documents using standard guidelines, and develop critical reading skills. (Prerequisite: Accuplacer Rdg score greater/equal to 55 AND Sentence Skills greater/equal to 75; OR ACT Rdg score greater/equal to 16 AND Eng greater/equal to 18; OR preparatory courses-contact academic advisor at 920-498-5444)

10-152-184 IT:WEB:PROGRAMMING-SQL ...write queries in a relational database: creating tables, setting primary/foreign keys, populating tables, manipulating data and reporting. Explore join types, stored procedures, functions, and database administration SQL statements. (Prerequisite: 10-154-125, IT:Web:Database Development)

10-152-180 IT:WEB:SCRIPTING-JAVASCRIPT ...integrate JavaScript into interactive HTML5 pages, create user-defined functions, complete form validation, use objects within the Document Object Model, debug code, and test browser compatibility. (Prerequisite: 10-152-185, Website Coding)

10-152-182 IT:WEB:SCRIPTING-PHP ...use PHP, MySQL, HTML5, CSS3 and Apache to create standards based websites. PHP is used to connect to a MySQL database and retrieve site content. PHP is also used to organize the HTML5. (Prerequisites: 10-154-125, IT:Web:Database Development; 10-152-185, IT:Web:Website Coding)

10-804-133 MATH & LOGIC ...Students will apply problem solving techniques from discrete mathematics. Topics include symbolic logic, sets, algebra and base number systems (Prerequisite: Accuplacer Arith score greater/equal to 65 AND Rdg score greater/equal to 55; OR ACT Math score greater/equal to 15 AND ACT Rdg score greater/equal to 16; OR prep courses-contact academic advisor 920-498-5444).

10-152-183 IT:WEB:SCRIPTING-ASP.NET ...build interactive, database-driven websites with ASP.NET and C# with Visual Studio, handling web form events, using ASP.NET controls, designing master pages, managing state, and interacting with databases with ASP.NET data-bound controls. (Prerequisites: 10-154-125, IT:Web:Database Development; 10-152-180, IT:Web:Client Script-JavaScript; 10-152-173, IT:Program:Part 1 (C#))

10-801-196 ORAL/INTERPERSONAL COMMUNICATION ...the communication process, perception and self-concept, language, listening, nonverbal communication, interpersonal relationships, communication in groups and public communication; prepare and deliver an oral presentation. (Prerequisite: Accuplacer Rdg score greater/equal to 55 AND Sentence Skills score greater/equal to 60; OR ACT Rdg score greater/equal to 16 AND English score greater/equal to 16; OR preparatory course-contact an academic advisor at 920-498-5444)