

ABC Technical College



COMPUTER SYSTEMS & PROGRAMING LANGUAGES ON-LINE Course Summary

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Course/Program: COMPUTER SYSTEMS & PROGRAMING LANGUAGES ON-LINE

Objective: The Computer Programming Languages Career Certificate program provides students with a background in programming and logic, Visual Basic, and Java to help prepare them for entry-level positions as a computer programmer, website or software developer, or database manager. Assignments and other projects will be assigned periodically to help support and supplement material covered in class lessons.
There are three modules in this course. To complete this course and receive a certificate, students must pass the test given after each month with a grade of "C" or better. There is a total of three tests. No internship or externship is required.

Potential Occupations after Completion: Students will be able to seek entry-level positions on job occupation – Computer Programmer, Software Developer – Job title – Computer Programmer and Full Stack Developer.

The job classification this program prepares its graduates for using the United States Department of Labor's Standard Occupational Classification codes, at Detailed Occupational (six-digit) level are 15-1250 Software and Web Developers, Programmers, and Testers 15-1251 Computer Programmers, 15-1252 Software Developers, 15-1253 Software Quality Assurance Analysts and Testers, 15-1254 Web Developers, 15-1255 Web and Digital Interface Designers.

Duration: 240 hours = 16 Weeks
Class Schedule: Monday - Friday
Time/Language: 10:00 a.m. – 1:00 p.m. - English
6:00 p.m. – 9:00 p.m. - English

Module	Course	Clock Hours
1.	Introduction to Programming80 This course concentrates on the fundamental guidelines and best practices for developing Good programming skills <u>Objectives:</u> <ul style="list-style-type: none">• Learn the basics of computer programming and logic.• Understand the basic logic common to all programming languages.• Learn how to create your programs.• Use Boolean expressions.• Create loops and arrays.• Design graphical user interfaces. Textbook: <i>Programming Logic and Design</i>	
2.	JAVA™80 Java is a high-level programming language used to write programs that will run on any platform or operating system. <u>Objective:</u> <ul style="list-style-type: none">• Learn to use Java™ to program applets.• Use Java™ to create animations and graphics for use on the Internet. Textbook: <i>Java: A Beginner's Guide</i>	
3.	Introduction to Visual Basic. ®80 This course provides an introduction to Visual Basic. ® <u>Objectives:</u>	

- Use Visual Basic® to create computer programs.
- Write programs to solve real-world problems.
- Understand flowcharting.
- Understand the stages of the development lifecycle.
- Create a Windows® Forms application.

Textbook: *Beginning Visual Basic*

TOTAL HOURS: 240