

Programming with C#

About this Course

There are many programming languages in use today. Choosing a language to program in can be decided based on many factors such as learning curve, job specific requirements, platform specifics, or a plethora of other criteria. The C# programming language was created from the ground up to be an object-oriented programming language that offers ease of use, familiarity to C/C++ and Java developers, along with enhanced memory and resource management. C# is prevalent on the Microsoft platform but is also being used to develop software that runs on Linux, Android, and iOS devices as well. Learning C# can position the student well for future programming opportunities, provides a solid foundation in object-oriented programming knowledge, and paves the way for learning other programming languages. This course aims to teach the student about the core tenets of the C# language.

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Introducing C#

The Tools

Data Types, Variables, Operators and Expressions

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Module Two

Introduction
C# Decision Statements
Repetition in C#
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Introduction
Methods
Exception Handling
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Module Four

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Working with Arrays

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[Working with Structures \(struct\)](#)

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[Resource Management \(Garbage Collection\)](#)

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Module Eight

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[Working with Generics?](#)

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Module Nine

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[Using Events and Delegates](#)

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[Multitasking and Parallel Programming](#)

[More on Tasks](#)

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[Asynchronous Programming in C#](#)

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