

# Programming C# 6: Advanced

## Course Overview

This course will teach students about working with objects, methods, methods in classes, inheritance, interfaces, and arrays.

### Chapter 01 - Working With Objects

1h 20m

Topic A: Value and Reference Types - Part 1  
Value and Reference Types - Part 2  
Value and Reference Types - Part 3  
Topic B: Deterministic Object Lifetimes - Part 1  
Deterministic Object Lifetimes - Part 2  
Deterministic Object Lifetimes - Part 3  
Topic C: Instance and Static Members - Part 1  
Instance and Static Members - Part 2  
Instance and Static Members - Part 3  
Topic D: Working with Objects - Part 1  
Working with Objects - Part 2  
Working with Objects - Part 3

### Chapter 02 - Methods

1h 20m

Topic A: Properties - Part 1  
Properties - Part 2  
Properties - Part 3  
Topic B: Automatic Properties - Part 1  
Automatic Properties - Part 2  
Automatic Properties - Part 3  
Topic C: Methods - Part 1  
Methods - Part 2  
Methods - Part 3  
Topic D: Optional Param and Caller Info - Part 1  
Optional Param and Caller Info - Part 2  
Optional Param and Caller Info - Part 3

### Chapter 03 - Methods in Classes

1h 5m

Topic A: Methods in Classes - Part 1  
Methods in Classes - Part 2  
Methods in Classes - Part 3  
Topic B: Save and Retrieve Info - Part 1  
Save and Retrieve Info - Part 2  
Save and Retrieve Info - Part 3  
Topic C: Return and Pass Arrays - Part 1  
Return and Pass Arrays - Part 2  
Return and Pass Arrays - Part 3  
Topic D: Instance and Static Members - Part 1

Instance and Static Members - Part 2  
Instance and Static Members - Part 3  
Topic E: Expression Bodied Methods - Part 1  
Expression Bodied Methods - Part 2  
Expression Bodied Methods - Part 3

#### **Chapter 04 - Inheritance**

1h 16m

Topic A: Inheritance - Part 1  
Inheritance - Part 2  
Inheritance - Part 3  
Topic B: Derived Classes - Part 1  
Derived Classes - Part 2  
Derived Classes - Part 3  
Topic C: Override and Overload Members - Part 1  
Override and Overload Members - Part 2  
Override and Overload Members - Part 3  
Topic D: Abstract Classes and Members - Part 1  
Abstract Classes and Members - Part 2  
Abstract Classes and Members - Part 3

#### **Chapter 05 - Interfaces**

1h 5m

Topic A: Sealed Classes and Members - Part 1  
Sealed Classes and Members - Part 2  
Sealed Classes and Members - Part 3  
Topic B: Interfaces - Part 1  
Interfaces - Part 2  
Interfaces - Part 3  
Topic C: Interfaces in .NET Framework - Part 1  
Interfaces in .NET Framework - Part 2  
Interfaces in .NET Framework - Part 3  
Topic D: Partial and Nested Classes - Part 1  
Partial and Nested Classes - Part 2  
Partial and Nested Classes - Part 3  
Topic E: Namespaces - Part 1  
Namespaces - Part 2  
Namespaces - Part 3

#### **Chapter 06 - Arrays**

1h 48m

Topic A: Arrays - Part 1  
Arrays - Part 2  
Arrays - Part 3  
Topic B: Initialize Array, Retrieve Data - Part 1  
Initialize Array, Retrieve Data - Part 2  
Initialize Array, Retrieve Data - Part 3  
Topic C: Arrays as Method Parameters - Part 1  
Arrays as Method Parameters - Part 2  
Arrays as Method Parameters - Part 3  
Topic D: Arrays in the .NET Framework - Part 1  
Arrays in the .NET Framework - Part 2  
Arrays in the .NET Framework - Part 3

Topic E: Manipulating Arrays - Part 1  
Manipulating Arrays - Part 2  
Manipulating Arrays - Part 3  
Topic F: Allowing Flexible Sorting - Part 1  
Allowing Flexible Sorting - Part 2  
Allowing Flexible Sorting - Part 3  
Topic G: Advanced Sorting - Part 1  
Advanced Sorting - Part 2  
Advanced Sorting - Part 3  
Topic H: Searching Arrays - Part 1  
Searching Arrays - Part 2  
Searching Arrays - Part 3  
Topic I: Creating Indexers - Part 1  
Creating Indexers - Part 2  
Creating Indexers - Part 3

**Total Duration:** 1h 48m