

This course covers the following topics (any items marked with a * will be covered if time allows):

<p>Designing classes</p> <ul style="list-style-type: none"> • The domestic cat object • Properties and methods • Encapsulation and exposure <p>Creating classes</p> <ul style="list-style-type: none"> • Using namespaces • Creating constructors • Fields, properties and methods • Static members <p>The form as a class</p> <ul style="list-style-type: none"> • Partial classes • InitializeComponent method • Instantiating forms <p>Data structures</p> <ul style="list-style-type: none"> • Generics • Arrays • Lists, stacks and queues • Dictionaries <p>Overloading</p> <ul style="list-style-type: none"> • Overloaded methods • Overloading constructors 	<p>LINQ theory</p> <ul style="list-style-type: none"> • Extension methods • Ienumerability • Query vs. method syntax <p>Writing LINQ</p> <ul style="list-style-type: none"> • Arrays, lists and data tables • Criteria and ordering • Using LET expressions <p>Advanced LINQ</p> <ul style="list-style-type: none"> • Projecting data • Anonymous types • Forcing query execution • Taking and skipping <p>Types of model</p> <ul style="list-style-type: none"> • Code first • Model first • Database first <p>Entity Frameworks</p> <ul style="list-style-type: none"> • Creating entity data models • Data contexts • Updating models 	<p>LINQ with Entity Frameworks</p> <ul style="list-style-type: none"> • Creating a data context • Selecting data using LINQ • Using relationships (associations) • Adding, editing and deleting <p>Advanced LINQ with EF</p> <ul style="list-style-type: none"> • Returning anonymous types • Using stored procedures • Extending (partial classes) <p>Grouping using LINQ (*)</p> <ul style="list-style-type: none"> • IGrouping and IEnumerable • Grouping keys • Group into and ordering • Using multiple keys
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There will be no more than 6 people on the course. All of our public (scheduled) courses include lunch at a local restaurant. For more information, see www.wiseowl.co.uk/courses/intermediate-c-sharp.htm.