

.NET (C#) BOOTCAMP

CURRICULUM OVERVIEW

**To be
completed
at home*

Unit 1: Prework*

- Introduction to C# and .NET
- Introduction to Visual Studio
- Version Control (Git/GitHub)
- Data Types
- Syntax

Unit 5: Intro to Web Apps

- SQL Server
- Introduction to ASP.NET
- State Management
- Razor

Unit 2: Introduction

- Control statements and loops
- Methods
- Strings and StringBuilders
- Exceptions and error handling
- Generating Documentation
- Coding best practices

Unit 6: ASP .NET MVC

- MVC
- ASP.NET MVC
- NuGet
- Entity framework
- Linq

Unit 3: Object Oriented

- Enumerations
- Arrays
- Collections and generics
- Object oriented programming
- Inheritance and polymorphism
- Interfaces and abstract classes
- Design patterns
- File I/O
- Threads
- TDD

Unit 7: Advanced Web Application Topics

- ASP.NET Identity
- Agile
- Web APIs
- JSON and XML
- Microsoft Azure
- Final project preparations

Unit 4: Front-End Dev

- Midterm project
- Deployment
- HTML, CSS, JavaScript

Unit 8: Final Team Project

Students will work in groups in a simulated real-world environment to complete projects of their choice. A MVP is due at the end of the first week of projects, and then the final product is demoed to the community at Demo Day.

Any items on this syllabus are subject to change at any time and without prior notice at the discretion of Grand Circus staff. This syllabus is used strictly as a reference and specific course content is catered to the specific needs of students.

Questions? Contact: bootcamps@grandcircus.co

