

Critical Path

Web Lab 1 (C# ASP.NET)

Instructor: **Christine Bittle**

The Critical Path is the course schedule. It is an important document that lays out weekly **and/or** module objectives that you are responsible for to ensure academic success. Download and/or print out a copy of the Critical Path and refer to it regularly. Critical path subject to change with course pacing.

Module Breakdown

Module	Topics, Readings, and Activities	Due Dates	Weight
1	Module 1: Introduction to Web Applications Topics: <ul style="list-style-type: none">• Introduction to web applications.• Client and web server Resources: <ul style="list-style-type: none">• Articles, Documentation, Handouts on BB• Github Examples on BB Activities: <ul style="list-style-type: none">• Installing and setting up a project space with ASP.NET• In class exercise	-	-

2	<p>Module 2: ASP.NET, WebAPI, and C#</p> <p>Topics:</p> <ul style="list-style-type: none"> • Communication between client and server • C# syntax - Variables • C# syntax - Methods • Navigating the Server Environment <p>Resources:</p> <ul style="list-style-type: none"> • Articles, Documentation, Handouts on BB • Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> • DEMO: URL Routing • DEMO: POST vs GET • ACTIVITY: Strings, Integers, Boolean 	Assignment 0	10%
3	<p>Module 3: HTTP and Github</p> <p>Topics:</p> <ul style="list-style-type: none"> • Client to Server Communication • Complex Data Types • Working with Github <p>Resources:</p> <ul style="list-style-type: none"> • Articles, Documentation, Handouts on BB • Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> • DEMO: HTML forms 		

	<ul style="list-style-type: none"> • DEMO: CURL • DEMO: Lists, IEnumerable • DEMO: Github 		
4	<p>Module 4: IF Statement</p> <p>Topics:</p> <ul style="list-style-type: none"> • Server Validation • IF Statement Control Structure <p>Resources:</p> <ul style="list-style-type: none"> • Articles, Documentation, Handouts on BB • Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> • DEMO: J1 Problems • ACTIVITY: Validation 	Assignment 1	10%
5	<p>Module 5: Loops and Algorithms</p> <p>Topics:</p> <ul style="list-style-type: none"> • Loops • Pseudo Code <p>Resources:</p>		

	<ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: J2 Problems ACTIVITY: Pseudo Code 		
6	<p>Module 6: Dynamic Web Pages</p> <p>Topics:</p> <ul style="list-style-type: none"> Server Rendered Pages Views Controllers <p>Resources:</p> <ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Controller and View ACTIVITY: Dynamic Page 		
7	<p>Module 7: Models & Object Oriented Programming</p> <p>Topics:</p> <ul style="list-style-type: none"> Object Oriented Programming Models <p>Resources:</p>	Assignment 2	20%

	<ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Model Activity: MVC Architecture 		
8	<p>Module 8: DB Connections</p> <p>Topics:</p> <ul style="list-style-type: none"> Data Access MySQL Client Library <p>Resources:</p> <ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Install Blog Database ACTIVITY: Query the DB 		
9	<p>Module 9: CRUD & Read Functionality</p> <p>Topics:</p> <ul style="list-style-type: none"> Combining Data access and Dynamic Web pages Data Driven Web Pages Read functionality <p>Resources:</p>		

	<ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: List View DEMO: Show View 		
10	<p>Module 10: Data Driven Features & Parameterized SQL</p> <p>Topics:</p> <ul style="list-style-type: none"> Data Driven Features N Tier Architecture Parameterized SQL <p>Resources:</p> <ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Build a Search Bar ACTIVITY: Improve the Search Bar 	Cumulative 1	20%
11	<p>Module 11: CRUD & Add, Delete Functionality</p> <p>Topics:</p> <ul style="list-style-type: none"> Delete Functionality Insert Functionality <p>Resources:</p>		

	<ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Insert DEMO: Delete ACTIVITY: Improve Insert Functionality ACTIVITY: Improve Delete Functionality 		
12	<p>Module 12: Catch Up Week!</p> <p>Topics:</p> <ul style="list-style-type: none"> Course Review <p>Resources:</p> <ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> Individual Meetings DEMO: Taking Requests 	Cumulative 2	20%
13	<p>Module 13: CRUD & Update Functionality</p> <p>Topics:</p> <ul style="list-style-type: none"> Update Functionality <p>Resources:</p>		

	<ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: Update Functionality Activity: Improve Update Functionality 		
14	<p>Module 14: Relational Data</p> <p>Topics:</p> <ul style="list-style-type: none"> Representing 1-M Relationships Representing M-M Relationships <p>Resources:</p> <ul style="list-style-type: none"> Articles, Documentation, Handouts on BB Github Examples on BB <p>Activities:</p> <ul style="list-style-type: none"> DEMO: 1-M Relationship DEMO: M-M Relationship Activity: Improvements to 1-M, M-M 	Cumulative 3	20%

Summary of Graded Course Components

Summary	Weight
Total for all Assignments	40%

Assignment 0: 10% Assignment 1 : 10% Assignment 2 : 20%	
Cumulative Cumulative 1 : 20% Cumulative 2 : 20% Cumulative 3 : 20%	60%
Total	100%