Critical Path

Back-End Web Development 2

HTTP5226

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 is subject to change with the course pacing.

Module Breakdown

Module	Topics, Resources, and Activities	Due Dates	Weight
1	**Module 1: Project Planning** **Topics:** ● Introduction to Course ● Introduction to Passion Project **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● Establish Minimum Viable Product	-	-

	● ERDs and Wireframing ● Scaffolding Project		
2	**Module 2: Entity Framework & Passion Project Meetings** **Topics:** ● Language Integrated Query (LINQ) ● Object Relational Mapping (ORM) ● Planning a relational API **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Code First Migrations ● DEMO: Querying in LINQ	Passion Project Meetings	16.7%
3	**Module 3: Language Integrated Query** **Topics:** ● Gathering information from our database ● Adding, Deleting, Updating ● Data Transfer Objects		

	Resources: ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Integrating Authentication with MVP ● LAB: Creating User Stories		
4	**Module 4: Services & Relational CRUD** **Topics:** ● Services, Interfaces ● ViewModels **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Writing HTML helpers ● DEMO: Utilizing ViewModels		
5	**Module 5: Relational CRUD** **Topics:** ● 1-M Relationships	Minimum Viable Product	16.7%

	● M-M Relationships **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Create, Read, Update, and Delete with relationships 1-M and M-M		
6	**Module 6: Authentication 1** **Topics:** ● Authorize and Authenticate ● Client and Server Communication **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Pagination on List View ● DEMO: JS library integration		
7	**Module 7: Presentations & Image Upload** **Topics:** ● Presenting the Passion Project ● Image Upload Feature	Passion Project	16.7%

	Resources: ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● Passion Project Presentations ● Discussion Forum		
8	**Module 8: Creative Collab Introduction** **Topics:** ● Establishing the Minimum Viable Product ● Entity Relationship Diagrams ● Wireframes and User Stories **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Creating an ERD features ● DEMO: Wireframing features	-	-
9	**Module 9: Creative Collab Meetings** **Topics:**	Team Meeting	16.7%

	● Project Scope ● Wireframes ● Debugging Strategies ● Team Meeting ● Github workflow **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● Team Meeting ● Setting up project github		
10	**Module 10: Authentication 2** **Topics:** ● Role Based Authentication ● Conditional Rendering **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● Troubleshooting exercise		

11	**Module 11: Pagination**		
	Topics:		
	● Pagination algorithm		
	● Pagination views		
	Resources:		
	● Articles, Documentation, Handouts on BB		
	● Github Examples on BB		
	Activities:		
	● DEMO: Image Uploading in CRUD		
12	**Module 12: Client Script Integration**	Creative Collab Minimum Viable Product	16.7%
	Topics:		
	● External Client Script Plugins		
	● Client Side Validation		
	Resources:		
	● Articles, Documentation, Handouts on BB		
	● Github Examples on BB		
	Activities:		
	● DEMO: Complex authentication feature		
13	**Module 13: Workers & Server to Server**		
	Topics:		

	● Http Client ● Background services ● External APIs **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Server to Server connection		
14	**Module 14: Deployment** **Topics:** ● Deployment Strategies **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● Lab: Deploying an MVC Application	Creative Collab Final Submission	16.7%

Summary of Graded Course Components

Summary	Weight
Passion Project - Weeks 1 - 7 Passion Project Meeting: 16.7% Passion Project MVP: 16.7% Passion Project Presentation: 16.7%	100%
Creative Collab - Weeks 8 - 14 Creative Collab Meeting: 16.7% Creative Collab MVP : 16.7% Creative Collab Final Submission : 16.7%	
Total	100%