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	18%
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: HTTP Client & Views** **Topics:** ● HTML Helpers ● ViewModels ● Http Client **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	18%

	● M-M Relationships **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Responsive Design with Server Rendered Pages		
6	**Module 6: Authentication** **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	18%

	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	18%

	● 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**
	
	Topics:
	
	  ● External Client Script Plugins
	
	  ● Client Side Validation
	
	Resources:
	
	  ● Articles, Documentation, Handouts on BB
	
	  ● Github Examples on BB
	
	Activities:
	
	  ● DEMO: Complex authentication feature
		Creative Collab Minimum Viable Product	18%

13	**Module 13: Publish API Documentation** **Topics:**		

	● Code Factoring ● CSS polish ● Error catching **Resources:** ● Articles, Documentation, Handouts on BB ● Github Examples on BB **Activities:** ● DEMO: Error catching		
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	18%

Summary of Graded Course Components

Summary	Weight
Passion Project - Weeks 1 - 7 Passion Project Meeting: 10% Passion Project MVP: 20% Passion Project Presentation: 20%	100%
Creative Collab - Weeks 8 - 14 Creative Collab Meeting: 15% Creative Collab MVP : 15% Creative Collab Final Submission : 20%	
Total	100%