

Critical Path

Full-Stack Web Development – JS and XML

HTTP5222, Summer 2024

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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.

Module Breakdown

Module	Topics, Readings, and Activities	Due Dates	Weight
1	Module 1: Node.js Topics: <ul style="list-style-type: none">• Introduction to Course• Introduction to Node.js key concepts Readings: <ul style="list-style-type: none">• Provided by instructor Activities: <ul style="list-style-type: none">• Lab 1 (4%)	May 9	4%
2	Module 1: Node.js Topics: <ul style="list-style-type: none">• Create and run a Node.js app		4%

Module	Topics, Readings, and Activities	Due Dates	Weight
	<ul style="list-style-type: none"> npm Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Lab 2 (4%) 	May 16	
3	Module 1: Node.js Topics: <ul style="list-style-type: none"> Connecting your Node.js app to a MongoDB database MongoDB CRUD functions Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Lab 3 (4%) 	May 24	4%
4	Module 1: Node.js Topics: <ul style="list-style-type: none"> Create your own internal Node.js module MongoDB Atlas Database and securing MongoDB database Readings:		20%

Module	Topics, Readings, and Activities	Due Dates	Weight
	<ul style="list-style-type: none"> • Provided by instructor Activities: <ul style="list-style-type: none"> • In-class exercise • Assignment 1 (20%) 	May 30	
5	Module 1: Node.js Topics: <ul style="list-style-type: none"> • Mongoose • Deploying a Node.js app Activities: <ul style="list-style-type: none"> • Lab 4 (4%) 	Jun. 6	4%
6	Module 2: XML, JSON and APIs Topics: <ul style="list-style-type: none"> • Consuming a REST API using Node.js • Creating a JSON REST API using Node.js Readings: <ul style="list-style-type: none"> • Provided by instructor Activities: <ul style="list-style-type: none"> • Lab 5 (4%) 	Jun. 13	4%

Module	Topics, Readings, and Activities	Due Dates	Weight
7	Module 2: XML, JSON and APIs Topics: <ul style="list-style-type: none"> Reading/querying XML and JSON data sources Open data sources Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Lab 6 (4%) 	Jun. 21	4%
	READING WEEK (no classes)		
8	Module 3: React Topics: <ul style="list-style-type: none"> Intro to React components, props and states Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Project checkpoint (4%) Lab 7 (4%) 	Jul. 3 Jul. 5	8%

Module	Topics, Readings, and Activities	Due Dates	Weight
9	Module 3: React Topics: <ul style="list-style-type: none"> Using React Router for page routes Making API requests in React Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Lab 8 (4%) 	Jul. 12	4%
10	Module 3: React Topics: <ul style="list-style-type: none"> React Context Considerations for React apps Deploying a React app using Vercel Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> In-class exercise 		
11	Module 3: React Topics:		24%

Module	Topics, Readings, and Activities	Due Dates	Weight
	<ul style="list-style-type: none"> Reducer functions <p>Readings:</p> <ul style="list-style-type: none"> Provided by instructor <p>Activities:</p> <ul style="list-style-type: none"> In-class exercise Project (24%) 	Jul. 26	
12	<p>Module 4: Extras</p> <p>Topics:</p> <ul style="list-style-type: none"> Next.js framework TypeScript <p>Readings:</p> <ul style="list-style-type: none"> Provided by instructor <p>Activities:</p> <ul style="list-style-type: none"> In-class exercise 		
13	<p>Module 4: Extras</p> <p>Topics:</p> <ul style="list-style-type: none"> React Redux <p>Readings:</p> <ul style="list-style-type: none"> Provided by instructor 		

Module	Topics, Readings, and Activities	Due Dates	Weight
	Activities: <ul style="list-style-type: none"> In-class exercise 		
14	Module 4: Extras Topics: <ul style="list-style-type: none"> TBA Readings: <ul style="list-style-type: none"> Provided by instructor Activities: <ul style="list-style-type: none"> Assignment 2 (20%) 	Aug. 16	20%

Summary of Graded Course Components

Summary	Weight
Total for Labs (8)	32%
Total for Assignments (2)	40%
Total for Projects (1)	28%

Summary	Weight
Total	100%