Critical Path

Full-Stack Web Development – JS and XML
HTTP5222, Winter 2025

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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:** • Introduction to Course • Introduction to Node.js key concepts **Readings:** • Provided by instructor **Activities:** • Lab 1 (5%)	Jan. 8	5%
2	**Module 1: Node.js** **Topics:** • Create and run a Node.js app		5%

Module	Topics, Readings, and Activities	Due Dates	Weight
	• npm **Readings:** • Provided by instructor **Activities:** • Lab 2 (5%)	Jan. 16	
3	**Module 1: Node.js** **Topics:** • Connecting your Node.js app to a MongoDB database • MongoDB CRUD functions **Readings:** • Provided by instructor **Activities:** • Lab 3 (5%)	Jan. 24	5%
4	**Module 1: Node.js** **Topics:** • Create your own internal Node.js module • MongoDB Atlas Database and securing MongoDB database **Readings:**		

Module	Topics, Readings, and Activities	Due Dates	Weight
	• Provided by instructor **Activities:** • In-class exercise		
5	**Module 1: Node.js** **Topics:** • Mongoose • Deploying a Node.js app **Activities:** • Lab 4 (5%)	Feb. 6	5%
6	**Module 1: Node.js** **Topics:** • Logins with Express sessions **Activities:** • In-class exercise		
7	**Module 2: XML, JSON and APIs** **Topics:** • Consuming a REST API using Node.js • Creating a JSON REST API using Node.js		22%

Module	Topics, Readings, and Activities	Due Dates	Weight
	Readings: • Provided by instructor **Activities:** • Lab 5 (5%) • Assignment 1 (17%)	Feb. 20 Feb. 23	
8	**Module 2: XML, JSON and APIs** **Topics:** • Reading/querying XML and JSON data sources • Open data sources **Readings:** • Provided by instructor **Activities:** • Lab 6 (5%)	Feb. 28	5%
	READING WEEK (no classes)		
9	**Module 3: React** **Topics:** • Intro to React components, props and states		

Module	Topics, Readings, and Activities	Due Dates	Weight
	Readings: • Provided by instructor **Activities:** • Project checkpoint (5%) • Lab 7 (5%)	Mar. 10 Mar. 14	
10	**Module 3: React** **Topics:** • Using React Router for page routes • Making API requests in React **Readings:** • Provided by instructor **Activities:** • Lab 8 (5%)	Mar. 21	5%
11	**Module 3: React** **Topics:** • React Context • Considerations for React apps • Deploying a React app using Vercel **Readings:** • Provided by instructor		

Module	Topics, Readings, and Activities	Due Dates	Weight
	Activities: • In-class exercise		
12	**Module 3: React** **Topics:** • Reducer functions **Readings:** • Provided by instructor **Activities:** • In-class exercise • Project (20%)	Apr. 1	20%
13	**Module 4: Extras** **Topics:** • Next.js framework • TypeScript **Readings:** • Provided by instructor **Activities:** • In-class exercise		

Module	Topics, Readings, and Activities	Due Dates	Weight
14	**Module 4: Extras** **Topics:** • React Redux **Readings:** • Provided by instructor **Activities:** • Assignment 2 (18%)	Apr. 17	18%

Summary of Graded Course Components

Summary	Weight
Total for Labs (8)	40%
Total for Assignments (2)	35%
Total for Projects (1)	25%

Summary	Weight
Total	100%