

Week 1 — Express Basics & Environment Setup

Mar 31 – Apr 4


What We're Covering

This week we hit the ground running with Express and TypeScript. You'll learn how HTTP requests flow through a web server, how to define routes, handle parameters, parse request bodies, and send JSON responses. By the end of the week you should have a working Express API running locally.

Readings

- [Networking Fundamentals](#)
- [HTTP & the Web](#)

Due This Week

 **Quiz 1 — Due: Sunday, April 5 at 11:59 PM**

[Canvas · Site](#)

Covers: Networking Fundamentals, HTTP & the Web

What You Should Be Working On

- **Set up your development environment** — Node.js, VS Code/WebStorm, TypeScript. See the [Tools guides](#).
- **Read the Week 1 readings** and take Quiz 1 before Sunday.
- **Start your AI Diary** — begin logging how you use AI tools this week. See the [AI Diary page](#).
- **Review the TypeScript guides** — [JavaScript for Java Developers](#) and [TypeScript Essentials](#) are your bridge from Java. Also check out [Building & Running TypeScript](#).
- **Set up your editor** — See the [VS Code / WebStorm](#) setup guide.

Guides This Week

Web API Fundamentals: - [Intro to Express](#) - [Routing & Middleware](#) - [Error Handling & Validation](#) - [API Testing](#)

Using AI Tools: - [AI Tools Setup](#) - [Using a Coding Agent](#)

Learning Objectives & Course Outcomes

Syllabus Learning Objectives addressed this week:

- **L01:** Design and implement RESTful web APIs using a server-side framework
- **L06:** Transfer object-oriented programming skills to a new language and ecosystem

Course Outcomes:

- **Inquiry and Critical Thinking** – modes of inquiry, analysis, and critical synthesis
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Lecture Demo Repo

TCSS 460 Backend 1

github.com/UWT-SET-TCSS460-LECTURE-MATERIALS/TCSS-460-Backend-1

Express + TypeScript lecture demo – routes, HTTP methods, input handling, middleware, validation, and proxy pattern. This repo is the basis for Weeks 1-2 lectures and guides.

Lecture Recaps

- [Tuesday](#)
- [Thursday](#)