

This breakdown of the course is subject to change throughout the term, I will try to provide adequate advanced notice of any significant changes.

Week 01:

Introductions, go over syllabus, talk about course content, required software and accounts.

Week 02:

Intro to NodeJS, module patterns, fs(file system) module

Lab exercises introduced

Week 03:

Events, Streams and Buffers

Week 04:

Quiz 1

Setting up a new project(NPM, Package.JSON...)

Intro to HTTP and the http module in node

Week 05:

HTTP routes,

Content-Type

simple API example

Assignment 01 fs module simple static site generator

Week 06:

Introduction to MongoDB

Using MongoDB with Atlas

CRUD

Assignment 02 intro to MongoDB

Week 07:

Intro to hapi

configuration over code

Routes and handlers

Week 08:

Quiz 2

Planning an API

API design

Week 09:

hapi and mongodb

Separate passwords from code dotenv module, process.env

hapi CRUD

Assignment 03 API planning

Week 10:

hapi plugins vision and inert

Static pages, template engines

Forms

Assignment 04 book lending API

Week 11:

More hapi plugins

Validation with joi

Authentication with bell

Week 12:

Quiz 3

Deploying with now

Notes on transitioning from development to production

Week 13:

Exam review

Labs Due