

# Schedule

A week-by-week breakdown of the material.

## Week 1 (09/05-09/09)

- Day 1
  - Introduction, case studies<sup>1</sup>
- Day 2
  - Data Formats<sup>2</sup>
- Day 3
  - Data formats 2 (HTML, XML)
  - Assignment 1: Reading and writing data

## Week 2 (09/12-09/16)

- Day 1
  - Introduction to Web APIs and Web Services.
- Day 2
  - Communication Protocols. HTTP, REST
- Day 3
  - Authorization and OAuth2
  - Assignment 2: Querying an API

## Week 3 (09/19-09/23)

- Day 1
  - Introduction to databases and SQL
- Day 2
  - Schema descriptions (Entity-Relation model)
- Day 3
  - Assignment 3: Working with MySQL database tables

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<sup>1</sup><notes/intro.html>

<sup>2</sup>[notes/data\\_formats.html](notes/data_formats.html)

## **Week 4 (09/26-09/30)**

- Day 1
  - Normalization
- Day 2
  - SQL Queries
- Day 3
  - More on SQL queries
  - Assignment 4: Practice with SQL queries

## **Week 5 (10/03-10/07)**

- Day 1
  - Updates and Deletes
- Day 2
  - Indexes and Views
- Day 3
  - Assignment 5: More advanced work with SQL databases

## **Week 6 (10/10-10/14)**

- Day 1
  - Introduction to NoSQL databases
- Day 2
  - More on NoSQL databases (Mongo?)
- Day 3
  - Midterm

## **Week 7 (10/17-10/21)**

- Day 1
  - Fall Break
- Day 2
  - Introduction to Hadoop
- Day 3
  - TBA

### **Week 8 (10/24-10/28)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - TBA

### **Week 9 (10/31-11/04)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - TBA

### **Week 10 (11/07-11/11)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - TBA

### **Week 11 (11/14-11/18)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - TBA

## **Week 12 (11/21-11/25)**

- Day 1
  - TBA
- Day 2
  - Thanksgiving
- Day 3
  - Thanksgiving

## **Week 13 (11/28-12/02)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - TBA

## **Week 14 (12/05-12/09)**

- Day 1
  - TBA
- Day 2
  - TBA
- Day 3
  - Project presentations