

## Web Platform and Programming Fundamentals

| SES #   | Date        | TOPICS                                  | COMMENTS           |
|---------|-------------|---|--------------------|
| LECT 1  | Wed, Feb 7  | Course Overview                         | HW00 OUT           |
| LAB 1   | Fri, Feb 9  | Dev Environment                         | HW00 DUE, HW01 OUT |
| LECT 2  | Mon, Feb 12 | Arrays & Objects                        |                    |
| LECT 3  | Wed, Feb 14 | Functions                               |                    |
| LAB 2   | Fri, Feb 16 | Active Learning Solutions Review        | HW01 DUE, HW02 OUT |
| Holiday | Mon, Feb 19 | Presidents Day                          |                    |
| LECT 4  | Tue, Feb 20 | JSON, Gov Data, Public APIs, Geospatial |                    |
| LECT 5  | Wed, Feb 21 | Filters, Sorting, Map, Reduce           |                    |
| LAB 3   | Fri, Feb 23 | Active Learning Solutions Review        | HW02 DUE, HW03 OUT |

## Software Architecture

| SES #  | Date        | TOPICS                                     | COMMENTS             |
|--------|-------------|--|----------------------|
| LECT 6 | Mon, Feb 26 | Visualization: SVG, Canvas, Data Documents |                      |
| LECT 7 | Wed, Feb 28 | Geospatial - Spatial/Temporal Information  |                      |
| LAB 4  | Fri, Mar 2  | Active Learning Solutions Review           | HW03 DUE, HW04 OUT   |
| LECT 8 | Mon, Mar 5  | Non-Blocking, Async Computation            |                      |
| LECT 9 | Wed, Mar 7  | Application Servers & Package Management   |                      |
| LAB 5  | Fri, Mar 9  | Active Learning Solutions Review           | HW 04 DUE, HW 05 OUT |
| QUIZ 1 | Mon, Mar 12 | QUIZ 1                                     |                      |

## Data Science and Geospatial

| SES #    | Date        | TOPICS  | COMMENTS           |
|----------|-------------|---|--------------------|
| LECT 10  | Wed, Mar 14 | Regression and Random Walk  |                    |
| LAB 6    | Fri, Mar 16 | Active Learning Solutions Review                                  | HW05 DUE, HW06 OUT |
| LECT 11  | Mon, Mar 19 | K-Nearest Neighbors (kNN)   |                    |
| LECT 12  | Wed, Mar 21 | K-Means   |                    |
| LAB 7    | Fri, Mar 23 | Active Learning Solutions Review                                  | HW06 DUE, HW07 OUT |
| Vacation | Mon, Mar 26 | Spring Break  |                    |
| Vacation | Wed, Mar 28 | Spring Break  |                    |
| Vacation | Fri, Mar 30 | Spring Break  |                    |
| LECT 13  | Mon, Apr 2  | Representational State Transfer Naive Bayes Classification (REST) |                    |
| LECT 14  | Wed, Apr 4  | Hardware and Communication  |                    |
| LAB 8    | Fri, Apr 6  | Active Learning Solutions Review                                  | HW07 DUE, HW08 OUT |
| LECT 15  | Mon, Apr 9  | Representational State Transfer                                   |                    |
| LECT 16  | Wed, Apr 11 | Containers  |                    |
| LAB 9    | Fri, Apr 13 | Active Learning Solutions Review                                  | HW08 DUE, HW09 OUT |

## Project

| SES #   | Date        | TOPICS       | COMMENTS |
|---------|-------------|--------------|----------|
| Holiday | Mon, Apr 16 | Patriots Day |          |
| QUIZ    | Wed, Apr 18 | Quiz 2       |          |

|                |                    |                              |                              |
|----------------|--------------------|------------------------------|------------------------------|
| <b>LAB 10</b>  | <b>Fri, Apr 20</b> |                              | <b>HW09 DUE, HW10 OUT</b>    |
| <b>LECT 17</b> | <b>Mon, Apr 23</b> | <b>Project</b>               | <b>HW: Project - Phase 1</b> |
| <b>LECT 18</b> | <b>Wed, Apr 25</b> | <b>Project</b>               |                              |
| <b>LAB 11</b>  | <b>Fri, Apr 27</b> |                              | <b>HW10 DUE, HW11 OUT</b>    |
| <b>PROJ 01</b> | <b>Mon, Apr 30</b> | <b>Project</b>               | <b>HW: Project - Phase 2</b> |
| <b>PROJ 02</b> | <b>Wed, May 2</b>  | <b>Project</b>               |                              |
| <b>PROJ 03</b> | <b>Fri, May 4</b>  |                              | <b>HW11 DUE, HW12 OUT</b>    |
| <b>PROJ 04</b> | <b>Mon, May 7</b>  | <b>Project Presentations</b> | <b>HW: Project - Phase 3</b> |
| <b>PROJ 05</b> | <b>Wed, May 9</b>  | <b>Project Presentations</b> |                              |
| <b>PROJ 06</b> | <b>Fri, May 11</b> | <b>Project Presentations</b> |                              |