# CS 418: Introduction to Data Science
## Course Schedule
## *Fall 2019*

| Week | Day | Date | Topic | Project | Homework | Lab |
|---|---|---|---|---|---|---|
| 1 | T | Aug 27 | Introduction | | | |
| | Th | Aug 29 | Preliminaries: Probability & Statistics I | | | |
| 2 | T | Sep 03 | Preliminaries: Probability & Statistics II | | HW1 (Preliminaries) | L1 (Python) |
| | Th | Sep 05 | Data Collection | | | |
| 3 | T | Sep 10 | Data Preparation I | | | L2 (Data Collection) |
| | Th | Sep 12 | Data Preparation II | | | |
| 4 | T | Sep 17 | Data Visualization | | | L3 (Data Preparation) |
| | Th | Sep 19 | Exploratory Data Analysis | | | |
| 5 | T | Sep 24 | Regression I | | | L4 (Exploratory Data Analysis) |
| | Th | Sep 26 | Regression II | | | |
| 6 | T | Oct 01 | Model Evaluation | P1 (Exploratory Data Analysis) | | |
| | Th | Oct 03 | Dimensionality Reduction | | | |
| 7 | T | Oct 08 | Classification I | | HW2 (Regression) | L5 (Regression) |
| | Th | Oct 10 | Classification II | | | |
| 8 | T | Oct 15 | Classification III | | HW3 (Classification) | L6 (Classification) |
| | Th | Oct 17 | Clustering I | | | |
| 9 | T | Oct 22 | Clustering II | | HW4 (Clustering) | L7 (Clustering) |
| | Th | Oct 24 | Clustering III | | | |
| 10 | T | Oct 29 | Exam Review | | | |
| | W | Oct 30 | ***Exam*** (Time and Location TBD) | Final Project Proposal | | |
| | Th | Oct 31 | Text Analysis I | | | |
| 11 | T | Nov 05 | Text Analysis II | P2 (Regression, Classification & Clustering) | | |
| | Th | Nov 07 | Text Analysis III | | | |
| 12 | T | Nov 12 | Big Data: Storage & Processing I | | HW5 (Text Analysis) | L8 (Text Analysis) |
| | Th | Nov 14 | Big Data: Storage & Processing II | | | |
| 13 | T | Nov 19 | Big Data: Storage & Processing III | | HW6 (Big Data) | L9 (Big Data I) |
| | Th | Nov 21 | Advanced Topics TBD | | | |
| 14 | T | Nov 26 | Ethics in Data Science | Final Project | | L10 (Big Data II) |
| | Th | Nov 28 | ***Thanksgiving Holiday*** | | | |
| 15 | T | Dec 03 | ***Final Project Presentations*** | P3 (Text Analysis & Big Data) | | |
| | Th | Dec 05 | ***Final Project Presentations*** | | | |

**NOTE:** The course schedule is subject to change.

Last Modified: August 28, 2019