

The following is a tentative schedule for the course subject to change. **Please adhere to the due dates provided in Canvas as Canvas supersedes this schedule.**

| Date | Topics | Assignments |
|--------|--|--|
| 18-Jan | No Class (Martin Luther King Jr. Day) | |
| 20-Jan | 1.1: Intro to Linear Regression/Syllabus Review | |
| 22-Jan | 1.2: Review of Hypothesis Testing | |
| 25-Jan | 1.3: SAS/R Crash Course | |
| 27-Jan | 1.4 Data Exploration / 1.5 Mathematical Writing | |
| 29-Jan | 2.1 Simple Linear Regression | HW 1/Getting to Know You/Hypothesis Testing Quiz/Syllabus Quiz |
| 1-Feb | 2.2: Diagnostics and Remedial Measures | |
| 3-Feb | (Applications and Examples) | |
| 5-Feb | 2.3: Simple Inference | |
| 8-Feb | 2.4: Simultaneous Inference: | |
| 10-Feb | (Applications and Examples) | |
| 12-Feb | 2.5 Multiple Linear Regression | HW 2 |
| 15-Feb | No Class (Presidents' Day) | |
| 17-Feb | 2.6: Multiple Inference | Quiz 1 |
| 19-Feb | (Applications and Examples) | Project 1 Paper - First Draft |
| 22-Feb | 3.1: Alternate Variable Types | |
| 24-Feb | 3.2: Variable Selection | |
| 26-Feb | (Applications and Examples) | HW 3 |
| 1-Mar | 3.3: Model Influence | Intro to Scientific Writing |
| 3-Mar | 3.4: Model Validation | Quiz 2 |
| 5-Mar | (Applications and Examples) | Project 1 Paper - Final Draft |
| 8-Mar | 4.1: Penalized Regression | Mid-Semester Evaluation |
| 10-Mar | 4.2: Other OLS Variations | |
| 12-Mar | No Class (Spring Break Replacement) | HW 4 |
| 15-Mar | (Applications and Examples) | |
| 17-Mar | 4.3: Non-Parametric Regression | Quiz 3 |
| 19-Mar | (Applications and Examples) | Project 2 Papers - First Draft |
| 22-Mar | Final Project Introductions | Mythos of Model Interpretability* |
| 24-Mar | Model Interpretability | Final Project Groups |
| 26-Mar | Group Work Primer | HW 5 |
| 29-Mar | (Final Project Group Meetings) | Project 2 Peer Review |
| 31-Mar | 5.1: Logistic Regression | Quiz 4 |
| 2-Apr | 5.2: Extensions of Logistic Regression | Project 2 Papers - Final Draft |
| 5-Apr | (Final Project Group Meetings) | Final Project Proposals |
| 7-Apr | 6.1: Time Series | |
| 8-Apr | 6.2 Time Series Case Study | HW 6 |
| 12-Apr | (Final Project Group Meetings) | Final Project Update |
| 14-Apr | (Applications and Examples - Homework 7) | Quiz 5 |
| 16-Apr | (Final Project Group Meetings) | |
| 19-Apr | 7.1: Generalized Additive Models | |
| 21-Apr | (Final Project Group Meetings) | |
| 23-Apr | 7.2 Quantile Regression | Final Project Papers - Penultimate Draft |
| 26-Apr | (Final Project Group Meetings) | HW 7 |
| 28-Apr | No Class (Interim Day) | Quiz 6 |
| 30-Apr | Project Presentations (class attendance required)** | Final Project Slides (pdf format)* |
| 3-May | No Class (Finals Week) | Review Response/Final Project Papers - Final Draft |

All assignments, unless otherwise indicated, must be submitted *before 8pm* on the day they are due.

* - Assignment due before class (1:15pm)

** - Final Exam Time: 1:30-3:20pm