|  |  |  |
| --- | --- | --- |
| **Dates** | **Class topic** | **Assignments due** |
|  | **Motivation and review** | |
| 1/31/17 | Class overview |  |
| 2/2/17 | Statistics review |  |
|  | **Module 1: Association studies** | |
| 2/7/17 | Introduction to association studies | Journal: 2/6 8:00PM |
| 2/9/17 | Statistical methods for association studies and simulation experiments | Journal: 2/12 11:59PM |
| 2/14/17 |  |
| 2/16/17 | Literature discussion: debate | Simulation activities: 2/19 11:59PM |
| 2/21/17 | Literature discussion: in-class review |  |
| 2/23/17 | Literature discussion: in-class review | Journal: 3/5 11:59PM |
|  | **Module 2: Causal Inference** | |
| 2/28/17 | Fundamental ideas in causal inference, randomized trials, and interrupted time-series/regression discontinuity designs |  |
| 3/2/17 | Papers: randomized trials and interrupted time series |  |
| 3/7/17 | Matching methods and instrumental variables |  |
| 3/9/17 | Papers: matching methods and instrumental variables | Journal: 3/12 11:59PM |
|  | **Review** | |
| 3/14/17 | No class |  |
| 3/16/17 | Review: modules 1 and 2 | Final project milestone 1: 3/19 11:59PM |
| **Spring Break: 3/20/17-3/26/17** | | |
|  | **Module 3: Survey Analysis** | |
| 3/28/17 |  |  |
| 3/30/17 |  |  |
| 4/4/17 |  |
| 4/6/17 |  | Journal: 4/9 11:59PM  Final project milestone 2: 4/9 11:59PM |
|  | **Module 4: Survival Analysis** | |
| 4/11/17 |  |  |
| 4/13/17 |  |  |
| 4/18/17 |  |
| 4/20/17 |  | Journal: 4/23 11:59PM  Final project milestone 3: 4/23 11:59PM |
|  | **Review** | |
| 4/25/17 | Review day 1 |  |
| 4/27/17 | Review day 2 |  |
|  | **Final presentations** | |
| 5/2/17 | Presentations: day 1 |  |
| 5/4/17 | Presentations: day 2 |  |
| **Final project paper due Wednesday, 5/17 5PM** | | |