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| Week | Topic | Textbook Readings | Submission items |
| 0 |  | Syllabus | Student self-intro video |
| 1 | Introduction to Data Mining | Ch.1 | HW1 |
| 2 | Data Exploration | Ch. 2-3 | HW2 |
| 3 | Association Rules | Ch. 6.1-6.3 | HW3 |
| 4 | Clustering | Ch. 8.1-8.3 | HW4 |
| 5 | Classification  algorithm: decision tree | Ch. 4.1-4.3 | HW5 |
| 6 | Model Evaluation | Ch. 4.4-4.6 | Practice Presentations |
| 7 | Classification algorithm: naïve  Bayes | Ch. 5.3 | ~~NO HW6 SUBMISSION~~ |
| 8 | Classification algorithm: kNN, SVMs, random  forest | Ch. 5.2, 5.5 | HW6 + HW7 as ONE SUBMISSION (ONE REPORT) |
| 9 | Text mining |  | ~~NO HW8 (CANCELLED!)~~ |
| 10 | Student project  presentation |  | Final Presentations |
|  | Friday after  the presentation |  | Final project report (checkpoint 3) |