## DATASCI/STATS 531/631 W25. Provisional schedule

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Wed Jan 08
              Class 1. Chapter 1. Introduction
Sun Jan 12
              Homework 0, due 11:59pm, ungraded
Mon Jan 13
              Class 2. Chapter 2. Trend and covariance
Wed Jan 15
              Class 3. Chapter 3. White noise and basic time series models
Sun Jan 19
              Homework 1 (needs chapter 2), Participation 1, due 11:59pm
Mon Jan 20
              MLK
Wed Jan 22
              Class 4. Finish Chapter 3, start Chapter 4. ARMA models
Mon Jan 27
              Class 5. Chapter 4 continued. Start chapter 5.
Tue Jan 28
              Homework 2 (needs chapter 3; chapter 4 to slide 15). Participation 2, due 11:59pm
Wed Jan 29
              Class 6. Chapter 5. Parameter estimation for ARMA
Mon Feb 03
              Class 7. Chapter 5 continued. Start Chapter 6
Wed Feb 05
              Class 8. Chapter 6. Seasonality and trend. Start Chapter 7
Sun Feb 09
              Homework 3 (needs chapters 5 and 6), Participation 3, due 11:59pm
Mon Feb 10
              Class 9. Chapter 7. Introduction to the frequency domain
Wed Feb 12
              Class 10. Chapter 8. Smoothing in the time and frequency domain
Sun Feb 16
              Homework 4 (needs chapter 7), Participation 4, due 11:59pm
Mon Feb 17
              Class 11. Chapter 8, continued
Wed Feb 19
              Class 12. Chapter 9. Health economics case study
Fri Feb 21
              Midterm project, due 11:59pm
Mon Feb 24
              Class 13. Chapter 10. Introduction to POMP models
Wed Feb 26
              Class 14. Chapter 10 continued
Fri Feb 28
              Midterm peer review, due 11:59pm
Mon\ Mar\ 03
              SPRING BREAK
Wed Mar 05
              SPRING BREAK
              Class 15. Chapter 11. POMP models for ecology and epidemiology
Mon Mar 10
Wed Mar 12
              Class 16. Chapter 12. Simulation of stochastic models
Sun Mar 16
              Homework 5 (needs chapter 10), Participation 5, due 11:59pm
Mon Mar 17
              Class 17. Chapter 13. The particle filter
Wed Mar 19
              Class 18. Chapter 13 continued
Sun Mar 23
              Homework 6 (using pomp, needs chapter 11), Participation 6, due 11:59pm
Mon Mar 24
              Class 19. Chapter 14. Parameter estimation by iterated filtering
Wed Mar 26
              Class 20. Chapter 14 continued
Mon Mar 31
              Class 21. Chapter 15. Polio case study
Tue Apr 01
              Homework 7 (iterated filtering, needs chapter 14), Participation 7, due 11:59pm
Wed Apr 02
              Class 22. Chapter 15 continued
Mon Apr 07
              Class 23. Chapter 16. Stochastic volatility
Wed Apr 09
              Class 24. Chapter 16 continued. Start of Chapter 17.
Mon Apr 14
              Class 25. Chapter 17. Measles modeling and inference
Tue Apr 15
              Homework 8 (POMP inference questions, needs chapter 15), Participation 8, due 11:59pm
Wed Apr 16
              Class 26. Chapter 17 continued. Starting Chapter 18.
Mon Apr 21
              Class 27. Chapter 18. Ebola, forecasting and diagnostics
Tue Apr 22
              Final project, due 11:59pm
              Final peer review, due 11:59pm
Wed Apr 30
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