DATASCI/STATS 531w24. Provisional schedule

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Class 1. Chapter 1. Introduction
Wed Jan 10
Sun Jan 14
              Homework 0, due 11:59pm, ungraded
Mon Jan 15
              MLK
Wed Jan 17
              Class 2. Chapter 2. Trend and covariance
Sun Jan 21
              Homework 1 (needs chapter 2), Participation 1, due 11:59pm
Mon Jan 22
              Class 3. Chapter 3. White noise and basic time series models
Wed Jan 24
              Class 4. Finish Chapter 3, start Chapter 4. ARMA models
Mon Jan 29
              Class 5. Chapter 4 continued. Start chapter 5.
Tue Jan 30
              Homework 2 (needs chapter 3; chapter 4 to slide 15). Participation 2, due 11:59pm
              Class 6. Chapter 5. Parameter estimation for ARMA
Wed Jan 31
Mon Feb 05
              Class 7. Chapter 5 continued. Start Chapter 6
Wed Feb 07
              Class 8. Chapter 6. Seasonality and trend. Start Chapter 7
Sun Feb 11
              Homework 3 (needs chapters 5 and 6), Participation 3, due 11:59pm
Mon Feb 12
              Class 9. Chapter 7. Introduction to the frequency domain
Wed Feb 14
              Class 10. Chapter 8. Smoothing in the time and frequency domain
Sun Feb 18
              Homework 4 (needs chapter 7), Participation 4, due 11:59pm
              Class 11. Chapter 8, continued
Mon Feb 19
Wed Feb 21
              Class 12. Chapter 9. Health economics case study
Fri Feb 23
              Midterm project, due 11:59pm
Mon Feb 26
              SPRING BREAK
Wed Feb 28
              SPRING BREAK
Mon Mar 04
              Class 13. Chapter 10. Introduction to POMP models
              Class 14. Chapter 10 continued
Wed Mar 06
Sun Mar 10
              Midterm peer review, due 11:59pm
              Class 15. Chapter 11. POMP models for ecology and epidemiology
Mon Mar 11
Wed Mar 13
              Class 16. Chapter 12. Simulation of stochastic models
Sun Mar 17
              Homework 5 (needs chapter 10), Participation 5, due 11:59pm
Mon Mar 18
              Class 17. Chapter 13. The particle filter
Wed Mar 20
              Class 18. Chapter 13 continued
Sun Mar 24
              Homework 6 (using pomp, needs chapter 11), Participation 6, due 11:59pm
              Class 19. Chapter 14. Parameter estimation by iterated filtering
Mon Mar 25
Wed Mar 27
              Class 20. Chapter 14 continued
              Homework 7 (iterated filtering, needs chapter 14), Participation 7, due 11:59pm
Sun Mar 31
Mon Apr 01
              Class 21. Chapter 15. Polio case study
              Class 22. Chapter 15 continued
Wed Apr 03
              Homework 8 (group questions on POMP inference, needs chapter 15), Participation 8, due 11:59
Fri Apr 12
Mon Apr 08
              Class 23. Chapter 16. Stochastic volatility
Wed Apr 10
              Class 24. Chapter 16 continued
Mon Apr 15
              Class 25. Chapter 17. Measles modeling and inference
Tue Apr 16
              Homework 9 (canceled to work on the final project?), Participation 9, due 11:59pm
Wed Apr 17
              Class 26. Chapter 17 continued
Mon Apr 22
              Class 27. Chapter 18. Ebola, forecasting and diagnostics
Tue Apr 23
              Final project, due 11:59pm
Tue Apr 30
              Final peer review, due 11:59pm
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