# Agenda for CSCE 582 (=STAT 582) class meeting of 2021-02-11 (Class 10: 2 of Week 5; Online)

1. **Remember to record the session!**

| WEEK | TOPIC | SOURCE |
|---|---|---|
| 1 (1/12,14) | Probability and Reasoning | Chs.1 and 2 [J[; instructor's slides |
| 2 (1/19,21) | Probability and Reasoning | Chs.1 and 2 [J[; instructor's slides |
| 3 (1/26,28) | *Probability and Reasoning;* Causal and Bayesian Networks | *Chs.1 and 2 [J[; instructor's slides* |
| 4 (2/2.4) | Causal and Bayesian Networks | Ch.2 [J]; *instructor's slides* |
| **5 (2/9,11)** | ***Casual and Bayesian Networks*; Building Models: Capturing the Structure and Determining the Conditional Probabilities** | ***Instructor's Slides*; Sections 3.1 & 3.2 [J]** |
| 6 (2/16,18) | Building Models: Capturing the Structure and Determining the Conditional Probabilities | Sections 3.2 and 3.3 [J] and notes on the stratum method |
| 7(2/23,25) | Building Models: Advanced Modeling Methods and Special Features; Wellness Holiday | Sections 3.3 and 3.4 [J] |
| 8 (3/2,4) | Building Models: Advanced Modeling Methods and Special Features; | Sections 3.3 and 3.4 [J] |
| 9 (3/9,11) | Review (if time permits) and Midterm | |
| 10 (3/16,18) | Belief Updating in Bayesian Networks: The Junction Tree Method | Ch.4 [J96] & Ch. 4 [J] |
| 11 (3/23,25) | Belief Updating in Bayesian Networks: Stochastic Simulation and Loopy Belief Propagation | Sections 4.7-4.8 [J] & Section 4.6 [J96] |
| 12 (3/30 & 4/1) | Wellness Holiday and Graphical Languages for Decision Problems | Ch.9 [J] |
| 13 (4/13,15) | Graphical Languages for Decision Problems | Ch.9 [J] |
| 14 (4/20,22) | Graphical Languages for Decision Problems | Ch.9 [J] |
| 15 (4/20,22) | Review (if time permits) and Graduate Student Presentations | |
| May 4 | Final Exam: May 4, 12:30 p.m. | |

2. Check email to see whether students are emailing reports of trouble.
3. Ask student to use chat for questions and mute audio and video on their side, to limit clutter and bandwidth.
4. Virtual Office Hours. I expect to have virtual office hours on Blackboard Collaborate Ultra from 1500-1800 on Mondays. Please email me if you want to meet me online.
5. HW3 assigned. due 2021-02-11 (Thursday): Exercises 2.12, 2.13, 2.14, 2.17, 2.18, 2.19 [J]. There is an error in the statement of Ex. 2.19: variables A and B need to be exchanged.
6. HW4 assigned, due 2021-02-18 (Thursday): Install Hugin or learn how to access it on the departmental Linux machines or on the remote CEC Windows lab. See the "Access and Resources" tab at https://internal.cec.sc.edu/its/ for instructions on how to access the remote CEC Windows Lab. " Do exercises 2.21, 2.22, and 2.23 [J].
7. Older versions of Hugin are available through the Content section of Blackboard for the course. The new version is available on the departmental lab machines and on the CEC Windows lab.
8. Casual and Bayesian networks: instructor's slides on bucket elimination and notes on nonserial dynamic programming. Building Models: Catching the Structure.
9. Make sure that the students are fine and wait for questions before ending the session.