

Agenda for CSCE 582 (=STAT 582) class meeting of 2021-01-19 (Class 3: 1 of Week 2; 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)	Causal and Bayesian Networks	Ch.2 [J]
4 (2/2,4)	Causal and Bayesian Networks	Ch.2 [J]
5 (2/9,11)	Building Models: Capturing the Structure and Determining the Conditional Probabilities	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.	

- Check email to see whether students are emailing reports of trouble.
- Ask student to use chat for questions and mute audio and video on their side, to limit clutter and bandwidth.
- 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.
- Syllabus and course administrative information.
- Introduction of students and instructor.
- Compositional systems and their pitfalls: the Chernobyl example (instructor's slides).
- D-separation and Markov blankets: Section 2.2 [J].
- Assign HW1, due on 2021-01-28 (Thursday): Exercises 2.1-2.11 [J].
- Probability prerequisites: Ch.1 [J].
- Make sure that the students are fine and wait for questions before ending the session.