Scholarly articles for **Belief network applications**

Collaborative filtering utilizing a **belief network** - Heckerman - Cited by 524
… risk management using a Bayesian **belief network** - Lee - Cited by 234
Real-world **applications** of Bayesian networks - Heckerman - Cited by 458

Videos

Bayesian Belief Network Applications for Supporting Warfighters

BayesiaLab
YouTube - Oct 2, 2014

Applications of Bayesian belief networks in water resource ...

https://www.sciencedirect.com/science/article/pii/S1364815216304698
by TD Phan - 2016 - Cited by 25 - Related articles
Bayesian **belief networks** (BBNs) are probabilistic graphical models that can capture and integrate both quantitative and qualitative data, thus accommodating ...

[PDF] Bayesian belief networks: applications in ... - USDA Forest Service

https://www.fs.fed.us/pnw/pubs/journals/pnw_2006_mccann001.pdf
by RK McCann - 2006 - Cited by 287 - Related articles
Feb 14, 2007 - Bayesian **belief networks**: **applications** in ecology and natural resource. Robert K. McCann, Bruce G. Marcot, and Rick Ellis. Abstract: In this ...

Bayesian belief network application in process mining

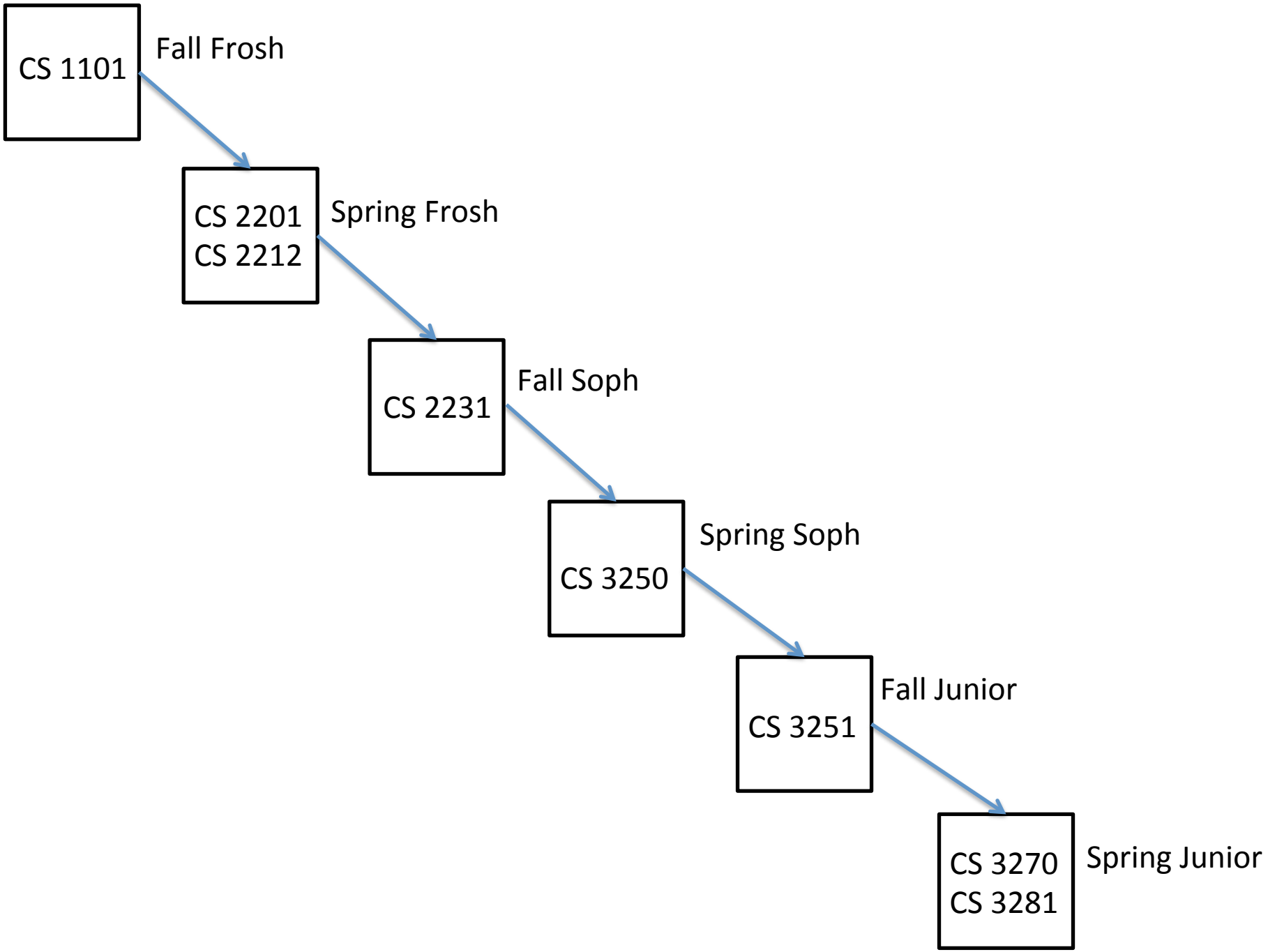
https://dl.acm.org/citation.cfm?id=2659607
by T Savickas - 2014 - Cited by 3 - Related articles
Bayesian **belief network application** in process mining. Published by ACM 2014 Article. Bibliometrics Data Bibliometrics. · Cita

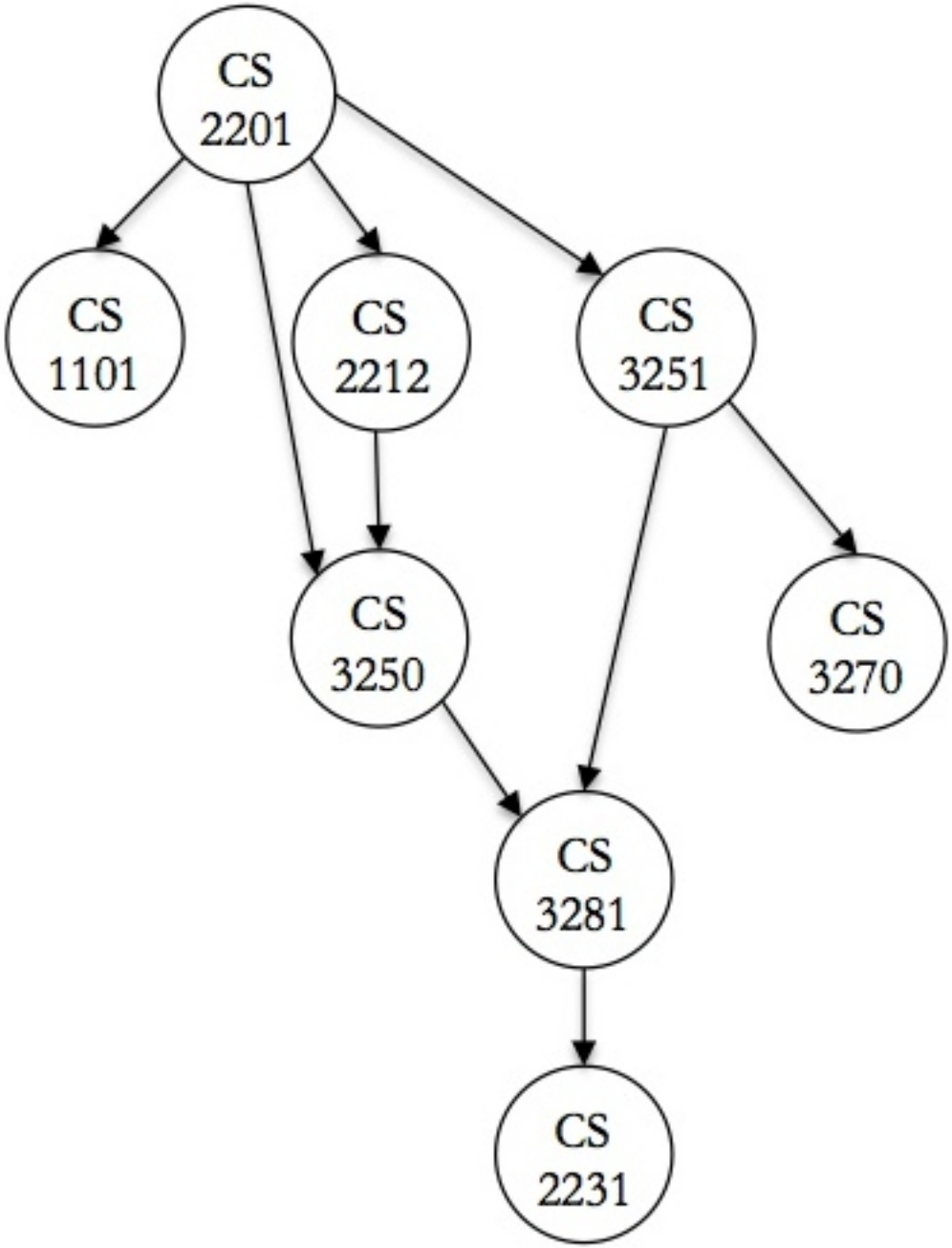
Application of Deep Belief Networks for Natural Language ...

https://ieeexplore.ieee.org/document/6737243/
by R Sarikaya - 2014 - Cited by 207 - Related articles
Application of Deep **Belief Networks** for Natural Language Understanding. Abstract: **Applications** of Deep Belief Nets (DBN) to various problems have been the ...

Application of Deep Belief Networks for Precision Mechanism Quality ...

https://link.springer.com/chapter/10.1007/978-3-662-45586-9_12
by J Sun - 2014 - Cited by 6 - Related articles
Precision mechanism is widely used for various industry **applications**. Quality inspection for precision mechanism is essential for manufacturers to assure the ...

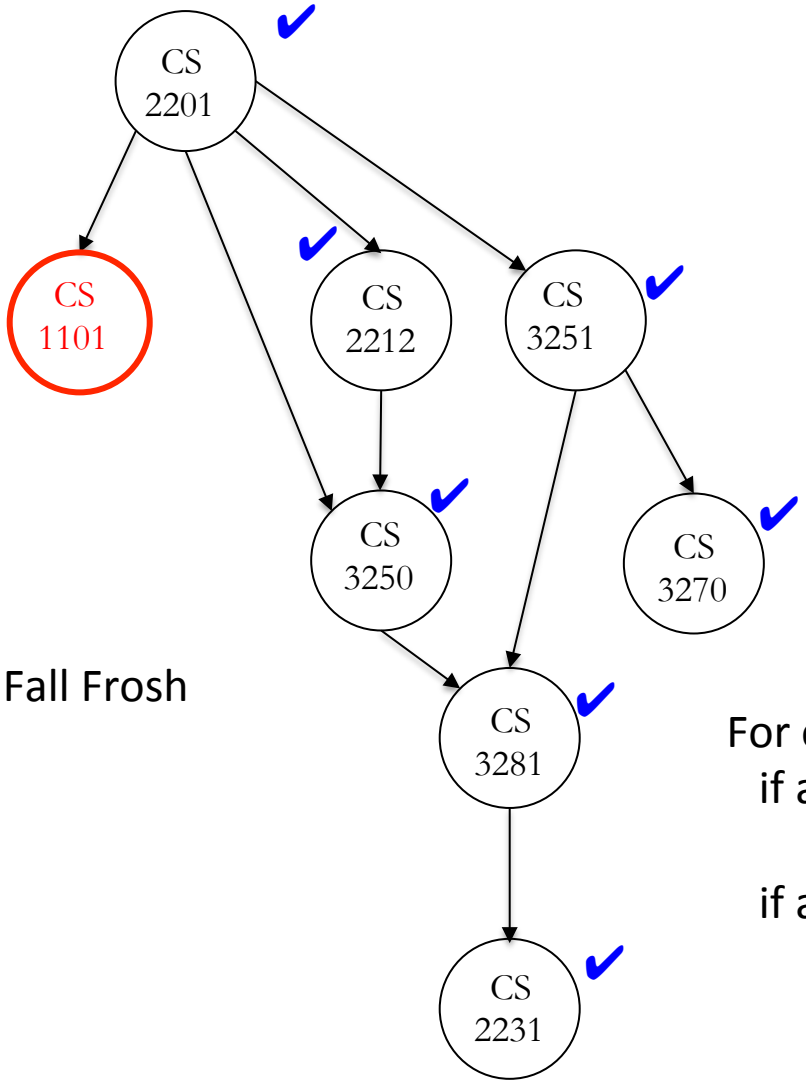

CS 1101
Fall Frosh
CS 2201
CS 2212
Spring Frosh
CS 2231
Fall Soph
CS 3250
Spring Soph
CS 3251
Fall Junior
CS 3270
CS 3281
Spring Junior


CS 2201
CS 1101
CS 2212
CS 3251
CS 3250
CS 3270
CS 3281
CS 2231

revise P(CS2201 | CS 1101)

…

revise P(CS3281 | CS 1101)



CS 1101

Fall Frosh

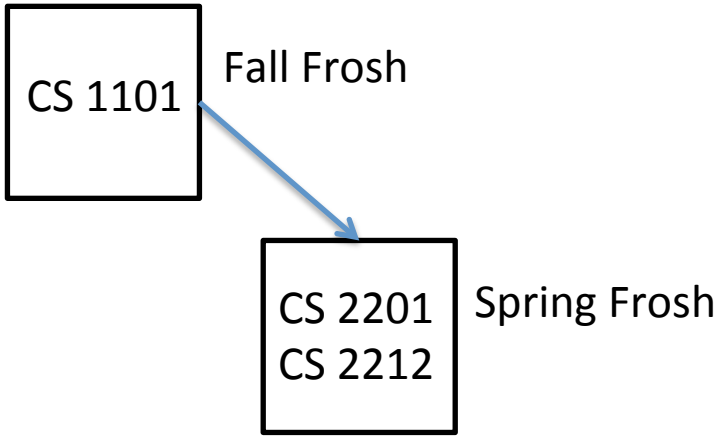
For example,

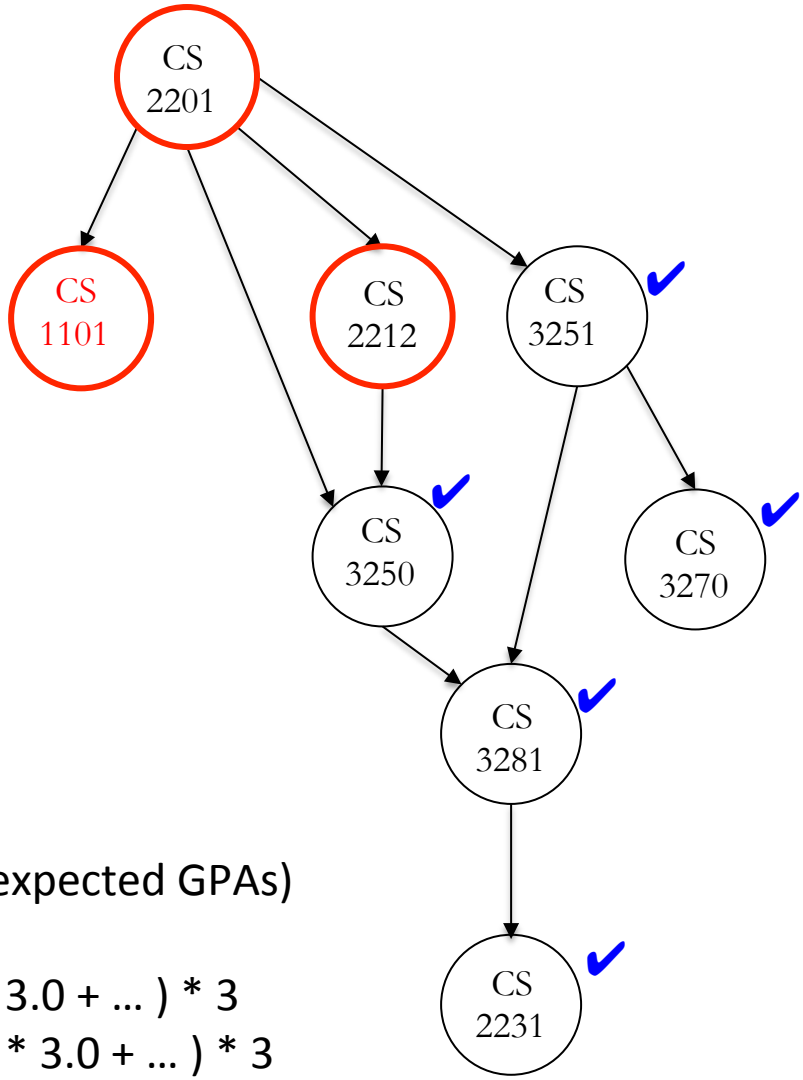
if an A in CS 1101

then probability of A in CS 2201 higher

if a C in CS 1101

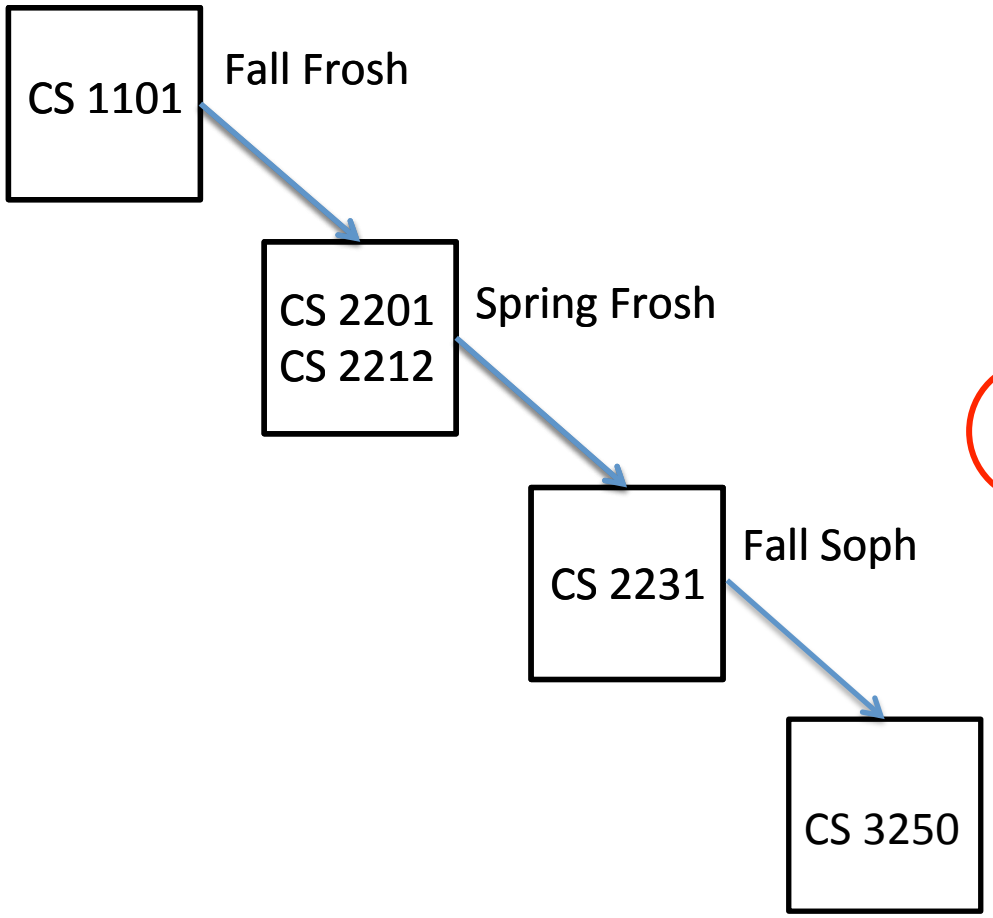
then probability of A in CS 2201 lower





As a student moves through the schedule,
continue to revise grade probabilities (and expected GPAs)

(P(CS 3250 = A|…) * 4.0 + P(CS 3250 = B|…) * 3.0 + …) * 3
+ (P(CS 3270 = A|…) * 4.0 + P(CS 3270 = B|…) * 3.0 + …) * 3
+ …
/ total credit hours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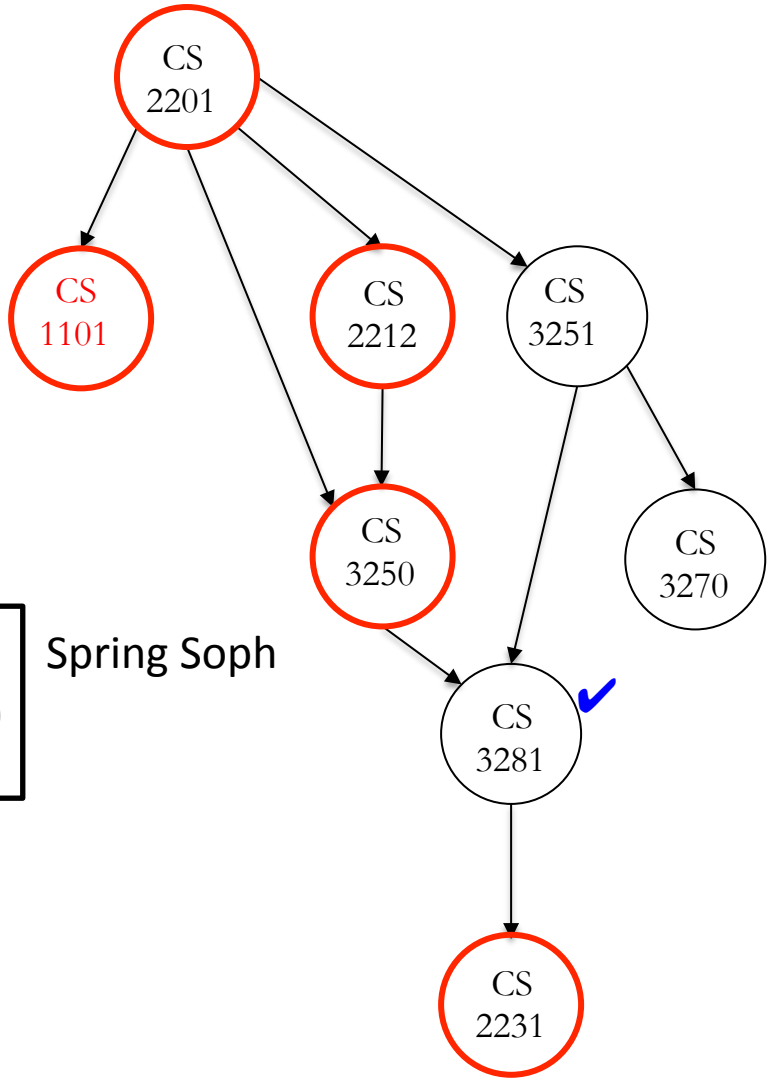
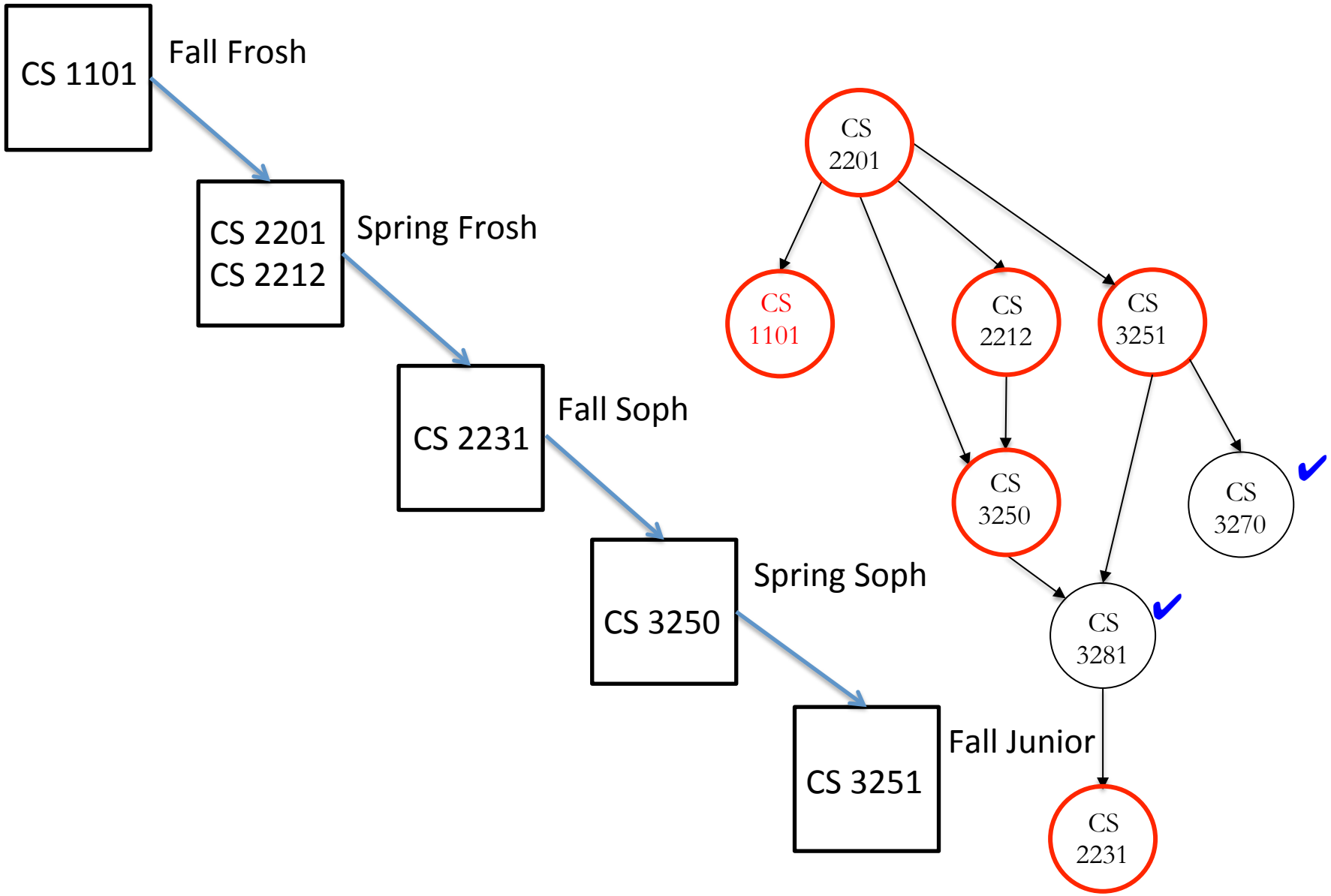
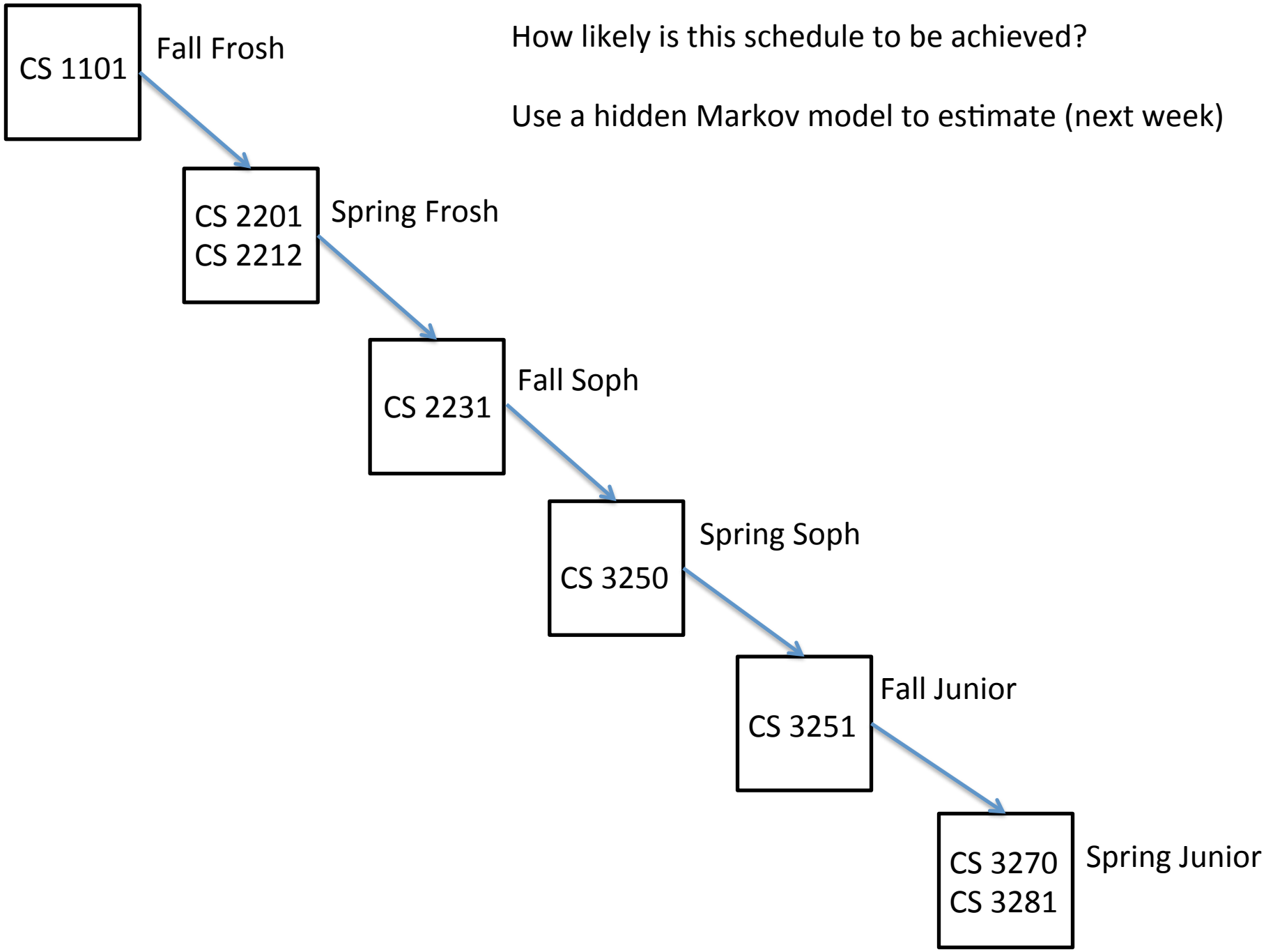
Fall Frosh
CS 2201
CS 2212
Spring Frosh
CS 2231
Fall Soph
CS 3250
Spring Soph


CS 2201
CS 1101
CS 2212
CS 3251
CS 3250
CS 3270
CS 3281
CS 2231


CS 1101
Fall Frosh
CS 2201
CS 2212
Spring Frosh
CS 2231
Fall Soph
CS 3250
Spring Soph
CS 3251
Fall Junior
CS 2201
CS 1101
CS 2212
CS 3251
CS 3250
CS 3270
CS 3281
CS 2231


CS 1101
Fall Frosh
How likely is this schedule to be achieved?
Use a hidden Markov model to estimate (next week)
CS 2201
CS 2212
Spring Frosh
CS 2231
Fall Soph
CS 3250
Spring Soph
CS 3251
Fall Junior
CS 3270
CS 3281
Spring Junior