COS402- Artificial Intelligence
Fall 2015

General Information
Staff, lectures, office hours

- **Lectures**: Tu/Th, 11:00am-12:20pm, at CS104
- **Instructors**:
  - Prof. Elad Hazan, Dr. Xiaoyan Li, Prof. Sebastian Seung
- **TA’s**:
  - Naman Agarwal, Brian Bullins, Brian Matejek, Alex Tarr, Yanchen Wang, Linguang Zhang
- **Office hours**: start next week
Course Summary

• problem solving using search, with applications to game playing
• reasoning and representing knowledge using logic
• probabilistic reasoning in the presence of uncertainty
• hidden Markov models and speech recognition
• Markov decision processes and reinforcement learning
• machine learning using decision trees, neural nets, etc.
Textbook

- *Artificial Intelligence: A Modern Approach*
  by Stuart J. Russell and Peter Norvig
  Third edition
  Prentice Hall, 2010
## Staff, Lectures, Office Hours

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Programming language: Java

- Java version: 5.0, 6.0 or 7.0 (not Java 8.0)
  - Unique constructor in PriorityQueue()
- Code provided for each assignment in Java
- Evaluation framework: Java 7.0 on server
Grading and workload

• **Final grade:**
  – Homeworks: 60%
  – Final exam: 35%
  – Others: 5% (random in-class quizzes, piazza/class participation)

• **Homeworks:**
  – 6 written problem sets
  – 6 programming assignments
Why in-class quizzes?

![Participation vs Course Grade](image)

- Course grade vs In-class Quizzes
- Participation vs Course Grade
- Why in-class quizzes?
Why in-class quizzes? (cnt’d)

Participation vs. Course Grade (WPF)

In-class Quizzes vs. Course Grade (WPF)
Turn in assignments

• Written exercises:
  – Hard copy (typed or handwritten, will take points off if hard to read)
  – Turn in at the beginning of the class on due date

• Programming assignments:
  – Electronically to CS dropbox by midnight of the due date
  – Upload java files and report.pdf
  – Press the “Check all submitted files” button
Homework Return & regrade

• Homework return (~2 weeks after submission)
  – At the end of class
  – Go to TA’s office hours (the TA in lead)

• Homework regrade:
  – Ask for a regrade within 2 weeks after its return
  – Go to the TA who takes the lead of this particular assignment
Late policy

• 8 free late days per student
  – E.g. 2 (P1)+ 3(P2) +3(W4) <=8

• At most 3 late days can be used for one homework

• No late homework accepted once your free days are used up
  – Exception: serious illness or other emergency circumstances

• P6 due on Dean’s date, can’t turn in late.
Final exam

• 2.5-hour exam
• Close book.
  • no textbook, notes, computers, etc.
  • **Exception:** May bring one-page cheat sheet (8.5” x 11” blank sheet of paper with your own handwritten notes.)
  
• A sample exam is available on the course website.

• What will be covered: lectures, homework, assigned readings.
Honors Optional Points

• Honors optional points (hops) for extra challenges for some programming assignments
• Optional,

• Hops are not treated on the same scale as the “regular points
• Helps when you have a borderline grade
Collaboration

• General course materials
  – Free and encouraged to discuss

• Homeworks
  – All writing and programming must be done strictly on your own
  – Should not share part or whole solution, on piazza or in person.
  – Can discuss homework questions for the purpose of a better understanding of the problem and the related material.
  – Write down on your solution who you’ve discussed with
Others:

• **Link to course website**
  – General info. Schedule and readings, assignments.

• **Piazza signup link for cos402**

• **Wait list**
  • write down your name and contact right after class