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

Monday	*Tuesday*	*Wednesday*	*THursday*	*Friday*
10:30am-11:30am	*9:30pm-10:30pm*	*10:30am-11:30am*	*1:00pm-2:00pm*	*2:30pm-3:30pm*
1:30pm-2:30pm	*1:00pm-2:00pm*	*3:00pm-4:00pm*	*2:00pm-3:00pm*	*3:30pm-4:30pm*
3:30pm-4:30pm	*1:30pm-2:30pm*			
4:30pm-5:30pm	*5:00pm-6:00pm*			
5:00pm-600pm				

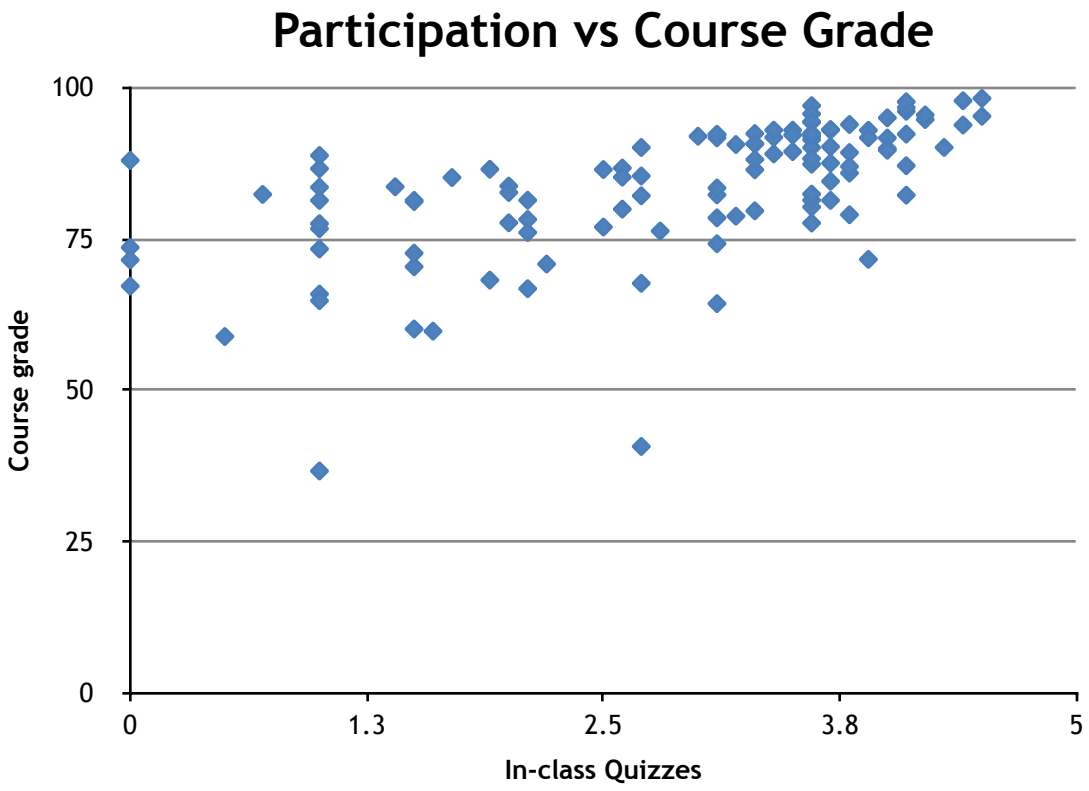
Programming language: Java

- **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

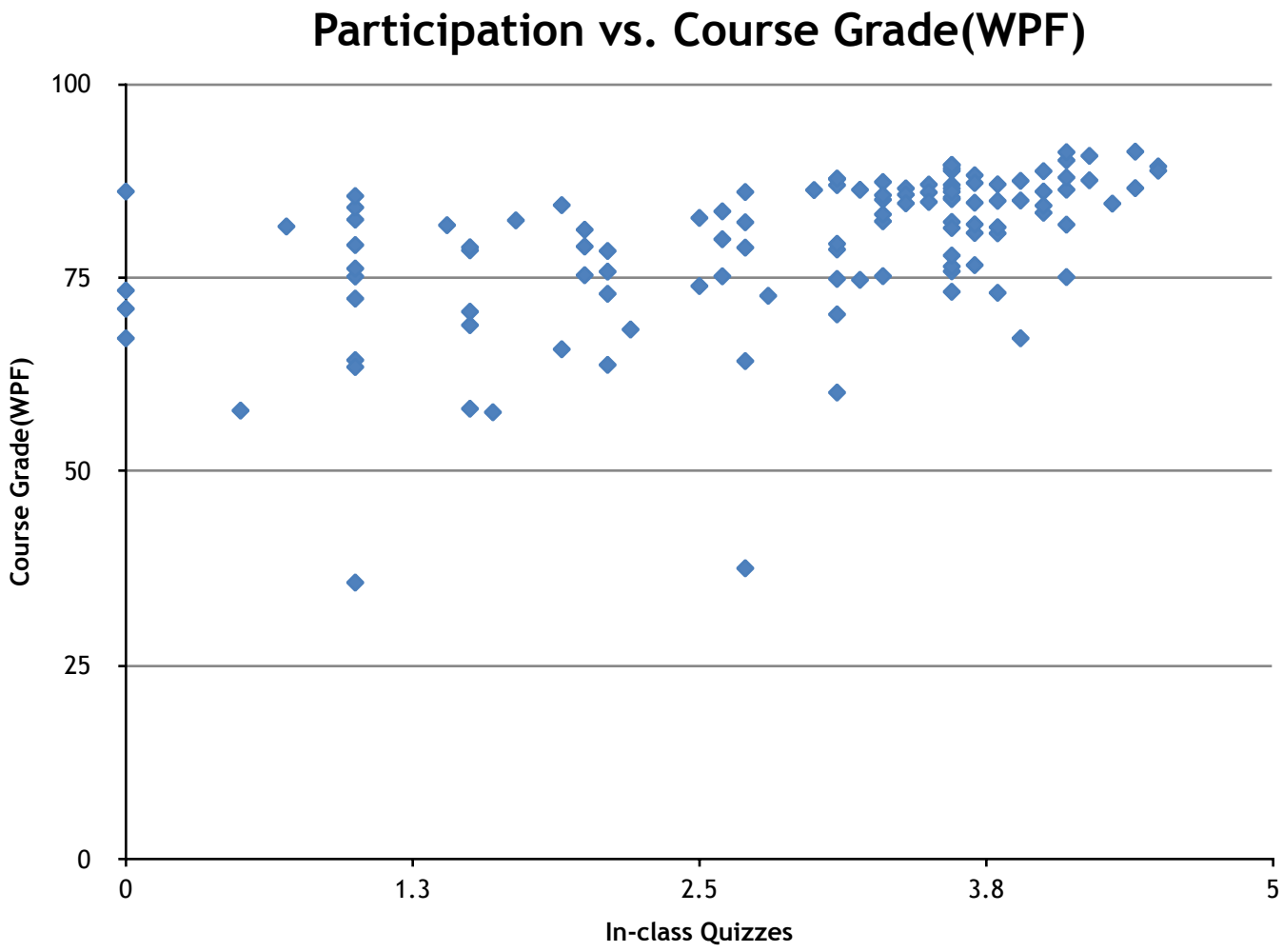
Grading and workload

- **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?



Why in-class quizzes?(cnt'd)



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”x11" 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**
  - **http://www.cs.princeton.edu/courses/archive/fall15/cos402/**
  - **General info. Schedule and readings, assignments.**

- **Piazza signup link for cos402**
  - piazza.com/princeton/fall2015/cos402

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