## CS343 Artificial Intelligence

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### **Good Morning, Colleagues**



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Are there any questions?







Peter Stone



• Next week's assignments up





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• AAAI, Form for AI





• Next week's assignments up

• AAAI, Form for AI

• Reading responses good overall



### **Terms you should Understand**

- Goal formulation
- Problem formulation
- Search
- Execute



# **Defining a Problem**

- Initial state
- Possible actions
- Transition model
- Goal test
- Path cost function



## Measuring problem solving performance

- Completeness
- Optimality
- Time complexity
- Space complexity



## **Types of Searches**

- BFS
- DFS
- UCS
- Depth-limited search
- Iterative deepening



### Next week: Relaxing the Assumptions

- Textbook readings: continuous spaces, nondeterminism, partial observations, unknown environments, ....
- Responses both Monday and Wednesday
- Search programming assignment

