

**CS 4700:**  
**Foundations of Artificial Intelligence**

**Instructor:**

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**Admin / Midterm**

**NO EXTENSION HWK #2!!!!**

# Midterm

**Closed book: 1 two-sided sheet of “cheat notes” allowed.  
(or 2 1-sided sheets)**

**Material: Up-to-and-including Wedn. Oct. 11.**

**See slides on web page.**

**I.e., up-to-and-including**

**“KR&R: Entailment and Proof Theory”**

**Study: Use slides**

**Use homeworks (for type of questions)**

**Use book for more details.**

# Midterm, cont.

General AI intro

Search & problem solving

informed; uninformed; A\* game tree; heuristics;  
adversarial search (game trees, minimax, alpha-beta);  
local search; simulated annealing; GA etc.)

Knowledge representation and reasoning

SAT encodings

semantics of (propositional) logic (sets of models)

soundness and completeness of logic

**See lecture slides for full coverage of topics!**

Review session next Wednesday during lecture time.