

Epistemic Logic and its Applications

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Syllabus (rough draft)

- Epistemic logic, syntax, semantics.
- Axiomatization, decidability.
- Consensus and common knowledge.
- Knowledge update and dynamic epistemic logic.
- Applications in game theory.
- History based models
- Applications to deontic logic.
- Logical omniscience.
- Belief revision and the logic of campaigning
- Animal beliefs?

This course will be offered through philosophy and should be cross listed in Math and CS