L1417: Paradox  
Summer HSSP, 2008

DESCRIPTION: The course discusses several famous logical paradoxes and various approaches to resolve them. One goal of the course is to intellectually stimulate your mind, without delving too deeply into technicalities. Another is for you to learn and practice logic, and develop analytical thinking.

INSTRUCTOR: Jongmin Baek (jbaek at alum dot mit dot edu)

COURSE URL: TBA
Any assignments or handouts, including this syllabus, will hopefully be posted on the web.

TIMES AND PLACES: 10-12 Sunday at location TBA

EXPECTATIONS:
- Please be courteous to your instructor and fellow classmates.
- Be lively and participate; do not disrupt discussions or lecture.

SCHEDULE:
● Week 1: Introduction + Divisibility  
  ○ Syllabus  
  ○ Elements of Argument  
  ○ What is a Paradox?  
  ○ Zeno's Paradox  
  ○ Lamp Experiment  
● Week 2: Vagueness  
  ○ Paradox of Heap  
  ○ Degrees of Truth  
● Week 3: Expectation  
  ○ What are Principles?  
  ○ Prisoner's Dilemma  
  ○ Newcomb's Paradox  
● Week 4: Knowledge  
  ○ Properties of Knowledge  
  ○ Epistemology 101  
  ○ Paradox of Surprise Exam  
● Week 5: Confirmation  
  ○ Principles of Confirmation  
  ○ Raven's Paradox  
● Week 6: Truth  
  ○ The Truth Predicate  
  ○ Liar's Paradox  
● Week 7: Language  
  ○ Sense and Reference  
  ○ Presuppositions  
● Week 8: Excursions (TBD)