

Introduction to Artificial Intelligence (COMP/EECE 4720/6720)
Spring 2017

Instructor: Bonny Banerjee, Ph.D.

Contact Information:

Office: 208B Engineering Science Bldg.

Phone: 901-678-4498

E-mail: BBnerjee@memphis.edu (email communication preferred)

Office Hours: By appointment

When: MWF 11:30 am-12:25 pm

Where: Engineering Science Bldg. Room 218

Course Description (from catalog):

Fundamentals of programming in LISP; central ideas of artificial intelligence, including heuristic search, problem solving, slot-and-filler structures, and knowledge representation.

Required Text:

"Artificial Intelligence: A Modern Approach" by Stuart Russell and Peter Norvig

Syllabus:

Introduction to a computational approach to artificial intelligence, intelligent agents, problem solving by searching, beyond classical search, logical agents, first-order logic, inference in first-order logic, classical planning, planning and acting in the real world.

Tentative schedule:

Week 1 (1/18). What is "intelligence"? (Chapter 1)

Week 2 (1/23). Intelligent agents (Chapter 2)

Week 3-7 (1/30). Problem solving (Chapters 3-6)

Week 8 (3/6). No class -- spring break

Week 9-14 (3/13). Midterm; Knowledge, reasoning and planning (Chapters 7-12) (4/8 no class -- National Conference on Undergraduate Research)

Week 15 (4/24). Student presentations

Final project reports are due by email by 4/24 before class.

Final exam is on Monday 5/1/17 during 10:30 am-12:30 pm

Evaluation and Final Grades:

Grading: Homeworks 20%, Midterm 20%, Final 20%, Project 20%, Class participation 20%

The 4720 and 6720 sections will be graded separately. In each exam, the students enrolled for 6720 will have to answer one more question.