cis32 — artificial intelligence — spring 2006

course information

- *instructor:*
  Prof Elizabeth Sklar
  `http://www.sci.brooklyn.cuny.edu/~sklar`
  email: *sklar@sci.brooklyn.cuny.edu*
  office: 1417 Ingersoll
  phone: 718 951 5000 x1502
  office hours: Mondays 11.00am to 12noon

- *course web page:*
  `http://www.sci.brooklyn.cuny.edu/~sklar/ai/`

- *lectures:*
  Mondays and Wednesdays, 12.15pm-1.30pm, in room 214 NE

- *computer access:*
  It will be helpful if you have access to a computer and the internet for this class. If you have a laptop, it will be helpful during labs (though it is not required and we can lend you a laptop for the lab).

- *related reading (but you don't have to buy the books):*
  Artificial Intelligence: A Modern Approach (2nd edition)
  by Stuart Russell and Peter Norvig, published by: Prentice Hall (2003)
  Artificial Intelligence: A New Synthesis
  by Nils J. Nilsson, published by: Morgan Kaufmann (1998)
  An Introduction to Multiagent Systems
  by Michael Wooldridge, published by: John Wiley & Sons (2002)

- *prerequisites:*
  Computer and Information Science (CIS) 22.

- *assessment:*

30	points	=	6 homework assignments (5 pts each)
30	points	=	2 projects (15 points each)
40	points	=	2 exams (20 pts each)
100	points		

topics

- Introduction to Artificial Intelligence, Autonomous Agents

- Problem solving, Search, Heuristic methods

- Introduction to Robotics

- Expert Systems, Intelligent Tutoring Systems

- Neural Networks, Evolutionary Computation, Artificial Life

- State space Learning, Game Playing, Knowledge Representation, Uncertainty

- Propositional Logic, Predicate Logic, Logic-based Agents

- Planning, Partial-order planning, Decision-theoretic planning