

Spring 2006
CSCI 4900/6900: Artificial Intelligence (AI) and the Web

- Instructor:** Prashant Doshi
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- Class Times:** Mon: 2:30p – 3:20p
Tue & Thur: 2:00p – 3:15p
- Class Locations:** Mon: GSRC 306
Tue & Thur: For. Res. 303
- Course Objectives:**
- To explore and study the AI techniques, systems, and concepts relevant to the WWW
 - Develop the skills for understanding research, thinking critically, and contributing to the subject through research projects and surveys
 - Develop the art of preparing and delivering fluid, concise, and effective talks and presentations
- Course Topics:**
- Intelligent information retrieval
 - Web data mining and clustering, link analysis, graph mining, text summarization, and the role of natural language processing techniques
 - Intelligent Web interfaces
 - User modeling, and Web personalization
 - Semantic Web
 - knowledge representation using logic, theorem proving, and trust
 - Ontologies
 - reconciliation (clustering, mapping, and merging), and automatic population using machine learning
 - Web services
 - modeling using logics, intelligent discovery and negotiation, and automatic composition
 - Web processes
 - composition and choreography, fault-tolerant and adaptive processes using probabilistic models
 - Single and multi-agent frameworks for the Web
- References:** There is no required textbook for this course. However, the following textbook is useful for reference:
- AI: A Modern Approach, 2nd Edition
Stuart Russell and Peter Norvig
- This textbook is available in the *reserved* section of the Science library for 2 hours at a time

Course Structure: Research paper presentations (2 papers)
Scribe duties
Individual or team project (at most 2 students in a team) in consultation with the instructor. For team projects, the work allocation to each team member must be clearly demarcated and be significant.

Course Schedule: This is an approximate schedule and is subject to change:

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| First round: 01/23/06 to 02/28/06 | Paper presentations |
| 03/02/06 to 03/16/06 | Project proposal presentations |
| Second round: 03/20/06 to 04/20/06 | Paper presentations |
| 04/24/06 to 05/09/06 | Final project presentations |

Grade Allocations: Undergraduate and graduate students will be assessed separately

Research paper presentations: 40%
Scribe duties: 15%
Project proposal presentation: 15%
Final project presentation: 20%
In-class participation: 5%
Attendance: 5%

Course Policy: The work you submit and present must be your own. Plagiarism and other forms of academic dishonesty will be handled within the guidelines of the Student Handbook. The usual penalty for academic dishonesty is loss of credit for the assignment in question; however, stronger measures may be taken when conditions warrant.
