Contact Information:

<table>
<thead>
<tr>
<th>Office: FIT 312, DH 335</th>
<th>Department Office: 375 Dunn Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: 678-1341</td>
<td>Department Phone: 678-5465</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:franklin@memphis.edu">franklin@memphis.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

Office Hours:

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Also by Appointment</td>
<td>By appointment only – <a href="mailto:franklin@memphis.edu">franklin@memphis.edu</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Course Description:

COMP 7/8720. Central issues of artificial intelligence, including game playing, planning, machine learning, common-sense reasoning, perception and action; implementations in LISP.

Why this course?

Using planning as our primary example, this course should provide the student with a deep understanding of the major modes of thought of symbolic artificial intelligence. A second purpose of the course, which is taught via Socratic method, is to train the student in techniques for in-depth mastery of a text.

Resources:

Required Text
Evaluation:

Final Grades:
Each class will include oral examination of individually selected students during classes. Grades will be assigned solely on the basis of this class participation.

Course Policies:
Class attendance and participation is required.

Plagiarism/Cheating Policy:

*Plagiarism or cheating* behavior in any form is unethical and detrimental to proper education and will not be tolerated. All work submitted by a student (projects, programming assignments, lab assignments, quizzes, tests, etc.) is expected to be a student's own work. The plagiarism is incurred when any part of anybody else's work is passed as your own (no proper credit is listed to the sources in your own work) so the reader is led to believe it is therefore your own effort. Students are allowed and encouraged to discuss with each other and look up resources in the literature (including the internet) on their assignments, but appropriate references must be included for the materials consulted, and appropriate citations made when the material is taken verbatim.

If plagiarism or cheating occurs, the student will receive a failing grade on the assignment and (at the instructor’s discretion) a failing grade in the course. The course instructor may also decide to forward the incident to the University Judicial Affairs Office for further disciplinary action. For further information on U of M code of student conduct and academic discipline procedures, please refer to: [http://www.people.memphis.edu/~jaffairs/](http://www.people.memphis.edu/~jaffairs/)

Course Syllabus

1. The Planning Problem [1]
5. Planning with Propositional Logic [2]
6. Time, Schedules, and Resources [1]
7. Scheduling with resource constraints [2]
9. Planning and Acting in Nondeterministic Domains [3]
11. Execution Monitoring and Replanning [3]
12. Continuous Planning [3]
13. MultiAgent Planning [3]