# CS 4300: Artificial Intelligence
## Fall 2015 Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic</th>
<th>Reading</th>
<th>Work Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1 - Aug 25</td>
<td>What is AI?, Agent/Environment Model, Rationality, Environment Classification</td>
<td>Ch 1, 2.1-2.2</td>
<td></td>
</tr>
<tr>
<td>W1 - Aug 27</td>
<td>Agent Structure, AI-Library</td>
<td>Ch 2.2-2.4</td>
<td>Development Environment</td>
</tr>
<tr>
<td>W1 - Aug 29</td>
<td></td>
<td></td>
<td>Clone Repositories</td>
</tr>
<tr>
<td>W2 - Sep 1</td>
<td>Solving Problems by Searching/Uninformed Search</td>
<td>Ch 3.1-3.3</td>
<td>Make Scavenger Agent</td>
</tr>
<tr>
<td>W2 - Sep 3</td>
<td>Uninformed Search</td>
<td>Ch 3.3-3.4</td>
<td>Reflex Scavenger Agent</td>
</tr>
<tr>
<td>W2 - Sep 5</td>
<td></td>
<td></td>
<td>Scavenger Agent Model I</td>
</tr>
<tr>
<td>Sep 7</td>
<td>Labor Day Holiday (no classes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W3 - Sep 8</td>
<td>Informed Search</td>
<td>Ch 3.5,3.6</td>
<td>Scavenger Agent Model II</td>
</tr>
<tr>
<td>W3 - Sep 10</td>
<td>Informed Search</td>
<td>Ch 3.5,3.6</td>
<td>Scavenger Search State/Action</td>
</tr>
<tr>
<td>W3 - Sep 12</td>
<td></td>
<td></td>
<td>Scavenger Search Problem</td>
</tr>
<tr>
<td>W4 - Sep 15</td>
<td>Local Search</td>
<td>Ch 4.1</td>
<td>Scavenger Search</td>
</tr>
<tr>
<td>W4 - Sep 17</td>
<td>Local Search</td>
<td>Ch 4.1</td>
<td>Scavenger Search and Do</td>
</tr>
<tr>
<td>W4 - Sep 19</td>
<td></td>
<td></td>
<td>Scavenger Search Results</td>
</tr>
<tr>
<td>W5 - Sep 22</td>
<td>Searching with Opponents (Minimax)</td>
<td>Ch 5.1-5.2</td>
<td></td>
</tr>
<tr>
<td>W5 - Sep 24</td>
<td>Searching with Opponents (Alpha-Beta)</td>
<td>Ch 5.3</td>
<td>Scavenger Online Model</td>
</tr>
<tr>
<td>W6 - Sep 29</td>
<td>Searching with Opponents (Cutoff)</td>
<td>Ch 5.4</td>
<td>Scavenger Online Model</td>
</tr>
<tr>
<td>W6 - Oct 1</td>
<td>Constraint Satisfaction Problems</td>
<td>Ch 6</td>
<td>Scavenger Online LOOK</td>
</tr>
<tr>
<td>W7 - Oct 6</td>
<td>Constraint Satisfaction Problems</td>
<td>Ch 6</td>
<td>Scavenger Online Explore</td>
</tr>
<tr>
<td>W7 - Oct 8</td>
<td>Review Chapters 1 - 6</td>
<td>Ch 1-6</td>
<td>Scavenger Online Recharge</td>
</tr>
<tr>
<td>Oct 8-11</td>
<td>Written Exam I in testing center</td>
<td>Ch 1-6</td>
<td></td>
</tr>
<tr>
<td>W8 - Oct 13</td>
<td>Propositional Logic</td>
<td>Ch 7.3,7.4</td>
<td>Scavenger Online Objects</td>
</tr>
<tr>
<td>Oct 15-16</td>
<td>Semester Break (no classes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W9 - Oct 20</td>
<td>Propositional Logic in Agents</td>
<td>Ch 7.1,7.2,7.7</td>
<td>Scavenger Online Cleanup</td>
</tr>
<tr>
<td>W9 - Oct 22</td>
<td>SAT Algorithms</td>
<td>Ch 7.5,7.6</td>
<td>?</td>
</tr>
<tr>
<td>W10 - Oct 27</td>
<td>First Order Logic Overview</td>
<td>Ch 8,9</td>
<td>?</td>
</tr>
<tr>
<td>W10 - Oct 29</td>
<td>Probability</td>
<td>Ch 13</td>
<td>?</td>
</tr>
<tr>
<td>W13 - Nov</td>
<td>More to come</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Event Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>----------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W13 - Nov 17</td>
<td>Scavenger Learning Counts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W13 - Nov 19</td>
<td>Scavenger Learning Expected Values</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W13 - Nov 21</td>
<td>Scavenger Learning Max Score</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W14 - Nov 24</td>
<td>Scavenger Learning Max Score in World</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W15 - Dec 1</td>
<td>Scavenger Learning Cleanup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W15 - Dec 3</td>
<td>Chinese Checkers Max</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W15 - Dec 5</td>
<td>Chinese Checkers Max-Min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W16 - Dec 8</td>
<td>Chinese Checkers MiniMax 3-Ply</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W16 - Dec 10</td>
<td>Chinese Checkers Tournament</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>More to come</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dec 15 | Final Exam 10:30 am - 12:30 pm | Final Exam

Class announcements may modify schedule from that listed above.