Computer Science

CS 548  **Models of Cognitive Processes**  credit: 4 hours.
Formal models and concepts in automated cognition; integrating machine learning and prior knowledge; current approaches and
detailed analyses of the role of reasoning in the learning process; computational complexity and fundamental tradeoffs between
expressiveness and tractability; implications for state-of-the-art artificial intelligence areas such as automated planning, the semantic
web, relational learning, structured prediction, latent models, structure learning, theory formation, etc.; philosophical and psychological
aspects of integrating analytic and empirical evidence. Same as ECE 548. Prerequisite: CS 440 or CS 446.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>64710</td>
<td>Lecture</td>
<td>R</td>
<td>02:00 PM - 03:15 PM</td>
<td>TR</td>
<td>1131 - Siebel Center for Comp Sci</td>
<td>Fu, W</td>
</tr>
</tbody>
</table>

Restricted to Graduate - Urbana-Champaign.