

Cognitive modeling is an area of research that deals with simulating human problem solving and mental processes in a computerized model. Such a model can be used to simulate or predict human behavior or performance on tasks similar to the ones modeled. In this module we will describe a number of different approaches to cognitive modelling, particularly focusing on models in the area of conceptual representation, semantics, and language. As part of this module students will develop a cognitive model for some process in this area and test this model against experimental data.

<div style="text-align:center;"><p>Curricular information is subject to change</p></div>

What will I learn?

Learning Outcomes:
<p>The module comprises one two-hour lecture per week for one semester. This module is typically offered in the second semester, but this is subject to change from one year to the next. There will be 12 two-hour lectures in total. Students will spend a significant amount of time in self-directed reading and on developing their own cognitive models, as well as in lectures. </p>

How will I learn?

Student Effort Hours:

Student Effort Type	Hours
Lectures	24
Specified Learning Activities	50
Autonomous Student Learning	70
Total	144

Am I eligible to take this module?

<div class="subHeadCB">Requirements, Exclusions and Recommendations</div>

<p>Not applicable to this module.</p>

<div class="subHeadCB">Module Requisites and Incompatibles</div>

How will I be assessed?

Description	% of Final Grade	Timing
Essay: cognitive modelling essay	50	Varies over the Trimester
Assignment: cognitive modelling assignment	50	Varies over the Trimester

What happens if I fail?

<p><u>Compensation</u></p>
<p>This module is not passable by compensation</p>
<p><u>Resit Opportunities</u></p>
<p>In-semester assessment</p>
<p><u>Remediation</u></p>

<p>If you fail this module you may repeat, resit or substitute where permissible</p>

Reading List

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<div class="pageBreak"><nav class="white-box no-left-arrow zero-top-margin">
<h1 class="printOnly"> UCD Course Search
Cognitive Modelling (COMP40270) </h1><h3 class="printOnly">Academic Year 2018/2019</h3><p class="printOnly"><em>The information contained
in this document is, to the best of our knowledge, true and accurate at the time of publication, and is solely for informational purposes. University
College Dublin accepts no liability for any loss or damage howsoever arising as a result of use or reliance on this information.</em></p>
<h4 class="noPrint">Cognitive Modelling (COMP40270)</h4>
<dl>
  <dt>Subject:</dt>
  <dd>Computer Science</dd>
  <dt>College:</dt>
  <dd>Science</dd>
  <dt>School:</dt>
  <dd>Computer Science</dd>
  <dt>Level:</dt>
  <dd>4 (Masters)</dd>
  <dt>Credits:</dt>
  <dd>7.5</dd>

  <dt>Semester:</dt>
  <dd>Semester Two</dd>
  <dt>Module Coordinator:</dt>
  <dd>Assoc Professor Fintan Costello</dd>
  <dt>Mode of Delivery:</dt>
  <dd>N/A</dd>

  <dt>How will I be graded?</dt>
  <dd>40% </dd>

</dl>
<div class="noPrint" style="text-align:center; margin-top:10px;"><button class="menubutton" onclick="window.print()"><i class="fa fa-print fa-fw"> Print
Page</button>
<span style="font-size:0.8em"><em>(<a href="https://www.google.com/chrome/" target="_blank">Google Chrome</a> is recommended when printing
this page)</em></span></div>

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