

JHU Department of Cognitive Science – Doctoral Program Requirements

Computational Cognitive Science (CCS) Track

For the (neuro)psychology, linguistics, and computational approaches tracks, please see alternate checklist.

Student Full Name: _____ (as it appears on transcript)

Start Term: _____ Primary Advisor: _____ Secondary Advisor: _____

~No Double Counting: Some courses will fit more than one requirement, but may only be used to satisfy a single requirement.~

Requirement	Course #	Course Title	Grade	Term
<input type="checkbox"/> Breadth (3 – 4 courses in Dept. of Cognitive Science) Must collectively develop sophistication in theoretical and (human) experimental approaches to cognitive science.	_____	_____	_____	_____
○ Language (at least 1 course)	_____	_____	_____	_____
○ Vision (at least 1 course)	_____	_____	_____	_____
<input type="checkbox"/> Basic Computation (3 courses) <i>Examples:</i>	_____	_____	_____	_____
• AS.050.670 Mathematical Models of Language	_____	_____	_____	_____
• AS.050.671 Bayesian Inference	_____	_____	_____	_____
• AS.050.672 Foundations of Neural Net Theory	_____	_____	_____	_____
• EN.601.675 Machine Learning	_____	_____	_____	_____
• EN.601.776 Machine Learning: Data to Models	_____	_____	_____	_____
<input type="checkbox"/> Integration (2 courses)	_____	_____	_____	_____
1. AS.050.626 Foundations of Cognitive Science	<u>AS.050.626</u>	<u>Foundations of Cognitive Science</u>	_____	_____
2. AS.050.850 Departmental Seminar, OR AS.050.860 Professional Seminar in CogSci, OR other dept-wide seminar explicitly offered in lieu these	_____	_____	_____	_____
<input type="checkbox"/> University Research Ethics Course	<u>AS.360.625</u>	<u>Responsible Conduct of Research</u>	_____	_____
<input type="checkbox"/> Depth/Primary Area of Focus (6-8 courses) Selected in conjunction with advisor(s) to achieve depth and expertise in CCS. Advisor may consult with Director of Graduate Studies (DGS).	_____	_____	_____	_____
<i>Examples:</i>	_____	_____	_____	_____
• AS.050.660 Computational Psycholinguistics	_____	_____	_____	_____
• AS.050.675 Probabilistic Models of the Visual Cortex	_____	_____	_____	_____
• EN.601.665 Natural Language Processing	_____	_____	_____	_____
• EN.601.769 Events Semantics in Theory & Practice	_____	_____	_____	_____
• EN.601.783 Vision as Bayesian Inference	_____	_____	_____	_____
<input type="checkbox"/> Teaching Assistantship (5 terms) AS.050.849 TA Practicum x 5 <i>Reduced from 7 to 5 terms. Effective Spring 2018 for all current and new PhD students.</i>	Instructor	TA'd Course	Grade	Term
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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Research Papers, Dissertation Proposal, and Defense

Academic Program Coordinator/main office must be informed of each milestone met.

- First Research Paper** Due: 2nd year, Nov. 1, 20____ **Completed:** _____
Student is evaluated for completion of PhD-Track MA requirements.
 Reader #1: _____
 Reader #2: _____
- Second Research Paper** Due 3rd year, May 1, 20____ **Completed:** _____
After successful completion, faculty & student meet to discuss career path.
 Reader #1: _____
 Reader #2: _____
- Dissertation Proposal** Due 4th year, May 1, 20____ **Completed:** _____
Student submits proposal to committee. Student must pass an oral defense.
 Committee Member #1: _____
 Committee Member #2: _____
 Committee Member #3: _____
- Graduate Board Oral Exam** Due 5th year, Aug. 1, 20____ **Completed** _____
A GBO Exam in Cognitive Science is a formal defense of a dissertation that presents an original contribution to some area(s) of cognitive science in a format approaching publication standards (guides.library.jhu.edu/etd/formatting). GBO date, committee members, grade, etc. recorded are recorded on the GBO Form and thus not included on this checklist. The Academic Program Coordinator MUST be informed of any upcoming GBOs at least 2 months in advance due to the time it takes to assemble a GBO committee, have the committee approved, and schedule the event.
For GBO information, see also <http://homewoodgrad.jhu.edu/academics/graduate-board/graduate-board-oral-exams>

Deadline Extension

To request a project deadline extension submit a written request to your advisor(s) and the Director of Graduate Studies. The request should include a proposed new deadline and a narrative explanation of the reasons for the extension and the goals for the new deadline (e.g. what the student will accomplish by the proposed new deadline). This request will become a part of your departmental file.

'Placing Out' of Degree Requirements

Send a transcript to the Director of Graduate Studies identifying which course(s) you feel may satisfy one or more PhD requirements with a brief rationale. If approved, the academic coordinator must be given written approval to add to your file.

Declaring CCS Track

In your graduate application, state your desire to be in the CCS Track in your Statement of Purpose. All other admitted students are assumed to be in the general PhD track with a (neuro)psychology, linguistics, or computational approaches focus. If you wish to declare the CCS track after admission, discuss the possibility with your advisor and jointly write the Director of Graduate Studies in Cognitive Science for approval to join the CCS track. If approved, the academic coordinator should be notified to add the written approval to your academic record.

University Graduate Affairs Policies: <http://homewoodgrad.jhu.edu/academics/policies>