JHU Department of Cognitive Science – Doctoral Program Requirements
Computational Cognitive Science (CCS) Track

For the general PhD track in Cognitive Science, 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.
One breadth course may be audited in consultation with your advisor. Minimum 9 credits per semester.

Requirement	Course #	Course Title	Grade	Term
☐ **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)				
☐ **Basic Computation** (3 courses) *Examples:* • AS.050.670 Mathematical Models of Language • AS.050.671 Bayesian Inference • AS.050.672 Foundations of Neural Network Theory • EN.601.675 Machine Learning • EN.601.776 Machine Learning: Data to Models				
☐ **Integration** (1 course) AS.050.626 Foundations of Cognitive Science	AS.050.626	Foundations of Cognitive Science		
☐ **University Research Ethics Course** (in person)	AS.360.625	Responsible Conduct of Research		
☐ **Depth** (6-8 courses) Number and scope of courses selected in conjunction with advisor(s) to achieve depth in CCS. Lab meetings may be used to fulfill this requirement.				
☐ *Examples:* • 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				
☐ **Professional Development** (2, four-session courses) Requirement fulfilled if enrolled in only SP18 offering.	AS.050.860	Professional Seminar in Cog Sci		
	AS.050.860	Professional Seminar in Cog Sci		
☐ **Departmental talk series. Register for Current Advances in Cognitive Science (1 credit)**	AS.050.850	Current Advances in Cognitive Science	S/U	all
☐ **Research credits. Register for research credits all terms. (Consult handbook for details and credit info.)**	AS.050.859	Research in Cognitive Science		
☐ **Teaching Assistantships (3-5 terms) Register for AS.050.849 Teaching Practicum all terms when acting as TA (3 credits).**	Instructor	Name of 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 requirements of the MA 'along the way.' See last page for MA along-the-way requirements. Faculty Readers must notify student and academic coordinator of outcome by December 1.

Reader #1 Name: _____

Reader #2 Name: _____

☐ **Second Research Paper** Due 3rd year, May 1, 20____ **Completed:** _____

After successful completion, advisor(s) and student meet to discuss career path. Faculty Readers must notify student and academic coordinator of outcome by June 1.

Reader #1 Name: _____

Reader #2 Name: _____

☐ **Dissertation Proposal** Due 4th year, May 1, 20____ **Date Approved:** _____

Student submits proposal to committee. Student must pass an oral defense. Advisor(s) must notify the student and academic coordinator of outcome.

Committee Member #1 Name: _____

Committee Member #2 Name: _____

Committee Member #3 Name: _____

☐ **Graduate Board Oral Exam** Due 5th year, Aug. 1, 20____ **Completed** _____

Preceded by an open presentation, 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. 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 time 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 before the deadline. 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 and course information (e.g. syllabi) to the Director of Graduate Studies (CC advisor) 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 the written approval to add to your file.

Declaring Computational Cognitive Science Track

In your graduation 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. 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 must be given the written approval to add to your file.

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

Policy on Mentoring Commitments for PhD Students and Faculty Advisors: https://provost.jhu.edu/education/graduate-and-professional-education/phd-mentoring-policies-and-resources/