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**INSTITUTE OF COGNITIVE SCIENCE**

Website: [www.colorado.edu/ics](http://www.colorado.edu/ics)

**Core Course Requirements**

*The required core courses represent a minimum of 12 units, including prerequisites.*

* PSYC 2145-3, Introduction to Cognitive Psychology
*Prerequisites: PSYC 1001-3 or 4 units*
* CSCI 3702, PHIL 3310, LING 3005, PSYC 3005, Introduction to Cognitive Science
*Prerequisites: 2 of the following: PSYC 2145, LING 2000, CSCI 1300, PHIL 2440 (a minimum of 3 additional units)*

**Advanced Skills Requirements**

Two of the following five advanced skills sequences, one of which may be in the area of the major.

**Psychology**

*Taking classes in the Psychology focus area would require a minimum of 7 units, and an additional minimum of 4 units for prerequisites.*

**Psychology 4145-4, Cognitive Psychology**
*Prerequisites: PSYC 1001-3, 2145-3, 3101-4, AND one of the following five courses in experimental psychology:*

* PSYC 4032-3, Neurobiology of Learning and Memory
*Prerequisites: PSYC 2012, or 4052, or IPHY 3730, or instructor consent*
* PSYC 4155, Cognitive Neuroscience/Neuropsychology
*Prerequisites: PSYC 1001, 2012, 2145 and 3101*
* PSYC 4165-4, Psychology of Perception
*Prerequisites: PSYC 1001-3, 3101-4*
* PSYC 4175-3, Computational Cognitive Neuroscience
*Prerequisites: PSYC 1001-3, 2145-3, 3101-4, 2012-3*
* PSYC 4220, Language & Mind
*Prerequisites: PSYC 1001, LING 2000*

**Linguistics**

*Taking classes in the Linguistics focus area would require a minimum of 6 units, and an additional minimum of 3 units for  prerequisites.*

**Linguistics 3100-3, Sound Structures** or SLHS 3006-3, Phonetics
*Prerequisites: LING 2000-3 AND one of the following four courses in Linguistics:*

* LING 3430-3, Semantics
* LING 4220-3, Language and Mind
*Prerequisites: LING 2000, psych 1001-3*
* LING 4420-3, Morphology and Syntax
*Prerequisite: LING 2000-3*
* LING 4560-3, Language Development

**Computer Science**

*Taking classes in the Computer Science focus area would require a minimum of 6 units and an additional minimum of 4 units for prerequisites.*

Two of the following courses in Computer Science:

* CSCI 3002-3, Human-Centered Computing Foundations
* CSCI 3202-3, Artificial Intelligence
*Prerequisites: CSCI 3104-4, 3155-4*
* CSCI 4202-3, Artificial Intelligence 2
*Prerequisite: CSCI 3202-3*
* CSCI 4830-3, Special Topics: Learning and Collaboration

**Philosophy**

*Taking classes in the Philosophy focus area would require a minimum of 6 units, and an additional minimum of 3 units for prerequisites.*

Two of the following six courses in Philosophy:

* PHIL 4300-3, Philosophy of Mind
*Prerequisites: PHIL 2440-3, 3010-3, 3340-3, 3480-3*
* PHIL 4340-3, Epistemology
*Prerequisites: 12 hrs PHIL inc 2440-3 & 3010-3*
* PHIL 4400-3, Philosophy of Science
*Prerequisites: 12 hrs PHIL inc 2440-3, junior standing*
* PHIL 4460-3, Modal Logic
*Recommended Prerequisite: PHIL 2440*
* PHIL 4490-3, Philosophy of Language
*Prerequisites: 12 hrs PHIL inc 2440-3, junior standing*

**Speech, Language, and Hearing Sciences**

*Taking classes in the Speech, Language, and Hearing Sciences focus area would require a minimum of 6 units, and an additional 3 units for prerequisites.*

**SLHS 2010-3, Science of Human Communication** AND one of the following four courses in Speech, Language, and Hearing Sciences (SLHS):

* SLHS 3006-3, Phonetics (if Linguistics 3100-3 is unavailable)
* SLHS 3106-3, Hearing Science
* SLHS 3116-3, Speech Science
* SLHS 4502-3, Language Disorders, Child and Adult
*Prerequisite: SLHS 4560-3*
* SLHS 4560-3, Language Development *Prerequisites: PSYC 1001-3, ling 2000-3*

**Other Requirements**

* All courses for certificate with grades of *C* or better and an overall grade-point average of 3.0 for certificate courses and their prerequisites.
* 15 of the units must be in upper-division courses.
* For transfer students: Up to two courses already successfully transferred to CU from another institution may apply to the certificate requirements with approval of the ICS Academic Director.