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Cognitive Systems Module Courses

Faculty of Arts

Course Code	Course Name	Credits	Prerequisites/Notes
ANTH 417B	Language, Culture, and Cognition	3-6	NO LONGER OFFERED
ASIA 371	Foundations of Chinese Thought	3	Equivalents: PHIL 371 Credit will only be granted for one of PHIL 371/ASIA 371.
ASIA 378	Philosophical Wisdom of Early India	3	Equivalents: PHIL 378 Credit will only be granted for one of PHIL 378/ASIA 378.
ASIA 470	Comparative Conceptions of the Self	3	Equivalents: PHIL 470 Credit will only be granted for one of PHIL 470/ASIA 470
ASTU 402	Living Language: Science and Society	3	Prerequisites: 4th year standing or permission of the instructor Equivalents: APSC402, FRST402, LFS402, LLED402, PHAR402
INFO 419	Information Visualization	3	

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LING 300	Studies in Grammar	3	Prerequisites: LING 201
LING 311	Studies in Phonology	3	Prerequisites: LING 200
LING 313	Introduction to Linguistic Phonetics and Speech Science	3	Prerequisites: LING 200
LING 314	Instrumental Phonetics	3	Prerequisites: LING 200 Recommended: LING 313
LING 319	Historical Linguistics	3	Prerequisites: LING 200 AND LING 201 <i>Not offered every year</i>
LING 327	Introduction to Semantics	3	Prerequisites: LING 201
LING 342	Computational Models of Language	3	Prerequisites: LING 242 AND one of LING 201, ENGL 331 AND one of STAT 200, STAT 203, STAT 251, STAT 302, MATH 302, PSYC 218 <i>Not offered every year</i>

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LING 345	Pragmatics	3	Prerequisites: one of LING 201, ENGL 331, PHIL 220, PHIL 222
LING 405	Morphology	3	Prerequisites: LING 300 AND LING 311 Not offered every year
LING 410	Advanced Phonology	3	Prerequisites: LING 311
LING 421	Advanced Syntax	3	Prerequisites: LING 300
LING 425	Advanced Semantics	3	Prerequisites: one of LING 327, PHIL 220, PHIL 222 Recommended: a basic introduction into syntax—suggested LING 100, LING 201, or ENGL 331
LING 431	Field Methods I	3	Prerequisites: LING 300 AND LING 311
LING 432	Field Methods II	3	Prerequisites: LING 431
LING 447	Topics in Linguistics	3	A capstone course for linguistics and speech sciences majors, normally taken after 3 years of study.

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			Individual sections differ substantially in description and required prerequisites—see online Course List for detailed descriptions.
LING 451	Acquisition of Phonology	3	Prerequisites: LING 222 AND LING 311
LING 452	Acquisition of Syntax	3	Prerequisites: LING 222 AND LING 300
MUSC 320	Computer Music	3	Prerequisites: MUSC 319 or permission of the instructor
MUSC 415	Imagining Musical Performances	3	Prerequisites: MUSC 200 Not offered every year
PHIL 320 (or 320A)	Logic: Metatheory and Computability	3	Prerequisites: one of PHIL 220 or PHIL 222. PHIL 222 is recommended.
PHIL 321 (or 321A)	Induction, Decision and Game Theory	3	Recommended prerequisites: one of PHIL 125, PHIL 220, PHIL 222, or instructor permission
PHIL 322 (or 322A)	Modal Logic	3	Recommended prerequisites: one of PHIL 220, PHIL 222. PHIL 222 is recommended. Not offered every year.
PHIL 323 (or 323A)	Non-Classical Logics	3	Recommended prerequisites: one of PHIL 220, PHIL 222.

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			PHIL 222 is recommended. Not offered every year.
PHIL 326 (or 326A)	Philosophy of Language	3	Prerequisites: At least one of LING 201/PHIL 220/PHIL 222, plus 6 additional credits of PHIL/LING at the 200-level or above. Will count towards module credit only if the upper-level philosophy requirement is satisfied with the other philosophy courses (PHIL351, PHIL441, PHIL451, PHIL455).
PHIL 333 (or 333A)	Bio-Medical Ethics	3	No philosophical background is required.
PHIL 340 (or 340A)	Introduction to Metaphysics	3	Prerequisites: PHIL 240 is recommended.
PHIL 351	Philosophical Perspectives on Cognitive Systems Research	3	Prerequisites: 3 credits selected from any of PHIL 211, 212, 220, 222, 230, 235, 240, 250, 260, or COGS 200 Will count towards module credit only if the upper-level philosophy requirement is satisfied with the other philosophy courses (PHIL326, PHIL441, PHIL451,

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			PHIL455).
PHIL 369 (or 369A)	Philosophy of Science	3-6	No philosophical background is assumed. Not offered every year.
PHIL 371	Foundations of Chinese Thought	3	Equivalent: ASIA 371 Credit will only be granted for one of PHIL 371/ASIA 371
PHIL 378	Philosophical Wisdom of Early India	3	Equivalent: ASIA 378 Credit will only be granted for one of PHIL 378/ASIA 378
PHIL 441 (or 441A or 441B)	Philosophy of Perception	3	Recommended prerequisites: Either PHIL 240 or COGS 200. If COGS 200, also 3 credits in PHIL at the 200-level or above. Will count towards module credit only if the upper-level philosophy requirement is satisfied with the other philosophy courses (PHIL326, PHIL351, PHIL451, PHIL455).
PHIL 450 (or 450A)	Topics in Metaphysics	3	Prerequisites: 9 credits in PHIL at the 200-level or above. PHIL 340 is recommended.

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			Not offered every year.
PHIL 451 (or 451A)	Philosophy of Mind	3	Recommended prerequisites: Either PHIL 240 or COGS 200. If COGS 200, accompanied by 3 credits in PHIL at the 200-level or above. Will count towards module credit only if the upper-level philosophy requirement is satisfied with the other philosophy courses (PHIL326, PHIL351, PHIL441, PHIL455).
PHIL 455 (or 455A)	Topics in the Philosophy of Cognitive Science	3	Prerequisites: one of PHIL 441, PHIL 451 OR any 6 credits of Philosophy at the 200-level or above (except PHIL 220, PHIL 222, PHIL 320). Will count towards module credit only if the upper-level philosophy requirement is satisfied with the other philosophy courses (PHIL326, PHIL351, PHIL441, PHIL451).
PHIL 470	Comparative Conceptions of the Self	3	Equivalent: ASIA 470 Credit will only be granted for one of PHIL 470/ASIA 470.

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PSYC 301	Brain Dysfunction and Recovery	3	<p>Strongly recommended: PSYC 101, 102, AND one of PSYC 216, PSYC 217, or 277.</p> <p>Credit will be granted for only one of PSYC 301 or NSCI 302. Restricted to students with second-year standing or higher.</p>
PSYC 304	Brain and Behaviour	6	<p>Strongly recommended: PSYC 101 AND one of PSYC 216, PSYC 217, PSYC 277.</p> <p>A maximum of 6 credits can be granted for either PSYC 304 OR PSYC 370 and 371.</p> <p>Restricted to all Arts and Science students with second-year standing or higher.</p>
PSYC 309 (or 309A)	Cognitive Processes	3	<p>Strongly recommended: PSYC 101 AND one of PSYC 216, 217, or 277.</p> <p>Restricted to students with second-year standing or higher.</p> <p>For students in the B.A. Mind,</p>

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			Language, and Computation stream, this will count towards module credit only if the PSYC304 or 309 requirement is satisfied with PSYC304.
PSYC 321 or 421	Environmental Psychology	3	Strongly recommended: PSYC 217, PSYC 277 AND one of PSYC 300, PSYC 308, PSYC 309, PSYC 314, PSYC 319. Restricted to students with third-year standing or higher. Credit will only be granted for one of PSYC 321/PSYC421.
PSYC 333	Memory: Historical, Clinical and Cognitive Perspectives	3	Strongly recommended: PSYC 101 AND one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.
PSYC 336	The Psychology of Language I	3	Strongly recommended: PSYC 101 AND one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

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PSYC 359	Advanced Research Methods in Behavioural Sciences	3	Prerequisites: one of PSYC 218, PSYC 278. Restricted to students with second-year standing or higher and a cumulative average at or above 76%.
PSYC 409	Cognitive Neuropsychology	3	Prerequisites: one of PSYC 304, PSYC 309, NSCI 201, PSYC 270 OR COGS 200. Restricted to students with third-year standing or higher.
THTR 399E (MDIA 470A 201)	Special Topics	3	Not offered every year. Restricted to students with 3rd year standing or higher.

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Faculty of Science

Course Code	Course Name	Credits	Prerequisites/Notes
BIOL 361	Physiology of Sensory, Nervous and Muscular Systems	N/A	Not offered; phased out in 2020W
BIOL 371	Principles of Neurobiology I	3	Prerequisites: BIOL 200 AND one of BIOL 260, NSCI 200, PSYC 270, PSYC 271, PSYC 304, CAPS 301. <i>On the Faculty of Science Credit Exclusion List along with BIOL 361, BIOL 455, PSYC 370, and PSYC 371.</i>
BIOL 372	Principles of Neurobiology II	3	Prerequisites: BIOL 371 <i>On the Faculty of Science Credit Exclusion List along with BIOL 455, PSYC 367, PSYC 370, and PSYC 371.</i>
BIOL 455	Comparative Neurobiology	N/A	No longer offered.
BIOL 458	Developmental Neurobiology	3	<i>For some streams, BIOL 458 can count towards module credit so long as PSYC 304, 360, 370, or 371 have <u>not</u> been taken.</i>
BIOL 459	Neurobiology of Sensory and Motor Systems	3	Prerequisites: one of BIOL 372, CAPS 301, PSYC 304, PSYC 367, PSYC 370.

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CPSC 304	Introduction to Relational Databases	3	Prerequisites: CPSC 221
CPSC 310	Introduction to Software Engineering	4	Prerequisites: ALL OF CPSC 213, CPSC 221.
CPSC 311	Definition of Programming Languages	3	Prerequisites: CPSC 210.
CPSC 312	Functional and Logic Programming	3	Prerequisites: One of CPSC 210, CPEN 221. Does not count for module credit for students in the B.Sc Computational Intelligence and Design stream (as it is a required course)
CPSC 313	Computer Hardware and Operating Systems	3	Prerequisites: ALL OF CPSC 213, CPSC 221.
CPSC 314	Computer Graphics	3	Prerequisites: CPSC 221 AND one of MATH 200, MATH 217, MATH 226, MATH 253 AND one of MATH 152, MATH 221, MATH 223.
CPSC 317	Introduction to Computer Networking	3	Prerequisites: ALL OF CPSC 213, CPSC 221.
CPSC 319	Software Engineering Project	4	Prerequisites: CPSC 310
CPSC 320	Intermediate Algorithm Design and Analysis	3	Prerequisites: CPSC 221, AND at least 3 credits from

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			<p>COMM 291, BIOL 300, MATH or STAT at 200 level or above.</p> <p>Does not count for module credit for students in the B.Sc Computational Intelligence and Design stream (as it is a required course)</p>
CPSC 322	Introduction to Artificial Intelligence	3	<p>Prerequisite: CPSC 221</p> <p>Does not count for module credit for students in the B.Sc Computational Intelligence and Design stream (as it is a required course)</p>
CPSC 330	Applied Machine Learning	3	<p>Prerequisites: Either one of CPSC 203, CPSC 210, CPEN 221 OR MATH 210 AND one of CPSC 107, CPSC 110</p>
CPSC 340	Machine Learning and Data Mining	3	<p>Prerequisites: CPSC 221 AND one of MATH 152, MATH 221, MATH 223 AND one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 AND one of STAT 241, STAT 251, ECON 325, ECON 327, MATH 302, STAT 302, MATH 318</p>
CPSC 344	Introduction to Human Computer Interaction Methods	3	<p>Prerequisites: one of CPSC 210, CPEN 221</p>

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CPSC 368	Databases in Data Science	3	Prerequisites: one of CPSC 203, CPSC 210, CPEN 221
CPSC 404	Advanced Relational Databases	3	Prerequisites: CPSC 304 AND one of CPSC 213, CPSC 261, CPEN 212
CPSC 416	Distributed Systems	3	Prerequisites: one of CPSC 313, CPEN 331 AND one of CPSC 317, ELEC 331
CPSC 420	Advanced Algorithms Design and Analysis	3	Prerequisites: CPSC 320
CPSC 421	Introduction to Theory of Computing	3	Prerequisites: one of CPSC 320 OR MATH 220 OR MATH 226
CPSC 422	Intelligent Systems	3	Prerequisites: CPSC 322
CPSC 425	Computer Vision	3	Prerequisites: ALL of CPSC 221, MATH 200, MATH 221
CPSC 430	Computers and Society	3	Prerequisites: 3 credits of Computer Science and at least third-year standing
CPSC 444	Advanced Methods for Human Computer Interaction	3	Prerequisites: CPSC 344 AND one of STAT 200, STAT 201, STAT 203, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, GEOG 374, KIN 206, KIN 371, POLI 389, PSYC 218, PSYC 278, PSYC 366, SOCI

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CPSC 445	Algorithms in Bioinformatics	3	Prerequisites: CPSC 320 AND either BEG 250 or six credits of BIOL beyond BIOL 111. <i>*Not offered every year*</i>
ISCI 351	Why the Big Brain? The Evolution of Human Cognition	3	Prerequisites: Third-year or higher standing in the Faculty of Science
MATH 302	Introduction to Probability	3	Equivalents: STAT 302 Prerequisites: one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254
MATH 303	Introduction to Stochastic Processes	3	Prerequisites: one of MATH 302, STAT 302 <i>On the Faculty of Science Credit Exclusion List with MATH 318.</i>
MATH 340	Introduction to Linear Programming	3	Prerequisites: one of MATH 152, MATH 221, MATH 223
MATH 344	Mathematical Game Theory	3	Prerequisites: Either (a) one of MATH 152, MATH 221 AND one of MATH 220, MATH 226, CPSC 121, OR (b) MATH 223
MATH 443	Graph Theory	3	Prerequisites: A score of 68% or higher in one of MATH

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			220, MATH 223, MATH 226, CPSC 121, AND 6 credits of MATH numbered 300 or above.
NSCI 303	Foundations of Computational Neuroscience	3	Prerequisites: NSCI 201 AND one of DSCI 100, CPSC 103, CPSC 110 AND one of MATH 100, MATH 102, MATH 104, MATH 120, MATH 180, MATH 184
PSYC 360	Biopsychology	N/A	NO LONGER OFFERED
PSYC 361	Neuroscience of Motivation	3	Prerequisites: One of NSCI 201, PSYC 270, PSYC 304, PSYC 370.
PSYC 366	Methods in Research	N/A	NO LONGER OFFERED
PSYC 367	Sensory Systems	3	Prerequisites: Either (a) one of PSYC 101, NSCI 201 or (b) COGS 200. PSYC 367 is on the Faculty of Science Credit Exclusion List along with BIOL 372.
PSYC 368	Perceptual Processing	3	Prerequisites: PSYC 367
PSYC 370	Behavioural and Cognitive Neuroscience I	3	Prerequisites: one of NSCI 201, PSYC 270, COGS 200 AND one of PSYC 217, PSYC 277 AND one of

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			<p>PSYC 218, PSYC 278.</p> <p>PSYC 370 is on the Faculty of Science Credit Exclusion List along with BIOL 371, 372, and PSYC 304. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371.</p> <p>Restricted to students in NSCI Major or Honours with second-year standing or higher.</p>
PSYC 371	Behavioural Neuroscience II	3	<p>Prerequisites: PSYC 370</p> <p>PSYC 371 is on the Faculty of Science Credit Exclusion List along with BIOL 371 and 372. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371.</p> <p>Restricted to students in NSCI Major or Honours with second-year standing or higher.</p>
PSYC 460	Behavioral Neuroendocrinology	3	<p>Prerequisites: one of PSYC 304, PSYC 371</p> <p>Restricted to students with</p>

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			third-year standing or higher.
PSYC 461	Neuroplasticity and Behaviour	3	Prerequisites: one of PSYC 304, PSYC 371 Restricted to students with third-year standing or higher.
PSYC 462	Drugs and Behavioural Neuroscience	3	Prerequisites: one of PSYC 304, PSYC 371 Restricted to students with third-year standing or higher.
STAT 302	Introduction to Probability	3	Prerequisites: One of MATH 200, MATH 226, MATH 217, MATH 253, MATH 254. Equivalency: MATH 302.
STAT 306	Finding Relationships in Data	3	Prerequisites: One of MATH 152, MATH 221, MATH 223 AND one of STAT 200, STAT 241, STAT 251, STAT 300, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC 278 AND one of MATH 302, STAT 302.
STAT 344	Sample Surveys	3	Prerequisites: one of STAT 200, STAT 241, STAT 251, BIOL 300, COMM 291, ECON 325, ECON 327, FRST 231, PSYC 218, PSYC

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			278, PSYC 366. Corequisites: One of MATH 302, STAT 302.
STAT 406	Methods for Statistical Learning	3	Prerequisites: One of STAT 306, CPSC 340

Other Faculties

Course Code	Course Name	Credits	Prerequisites/Notes
AUDI 402 (Faculty of Medicine)	Neuroanatomy for Audiology and Speech-Language Pathology	3	Prerequisites: As indicated on the website at www.audiospeech.ubc.ca OR by permission of the instructor.
AUDI 403 (Faculty of Medicine)	Introduction to Neurolinguistics	1.5	
MECH 421 (Applied Science)	Mechatronics System Instrumentation	4	Prerequisites: MECH 366. Corequisites: MECH 420.

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FAQ

WHY ARE THERE COURSES ON THE MODULE COURSE LIST THAT ARE NOT OFFERED, OR COURSES THAT ARE RESTRICTED?

[This is to account for returning students who may have completed these courses in the past.](#)
[Some restricted courses have seats available for COGS students in specific streams.](#)

WHERE DID THE INFORMATION IN THIS GUIDE COME FROM?

This guide was put together by the VPs Academic for the Cognitive Systems Society and *is not a replacement for the UBC Academic Calendar or Workday.* [The list of Module Courses can be found on the Cognitive Systems program website.](#) Information about prerequisites was sourced from the UBC 2024/2025 Academic Calendar and Workday, and last updated for this guide **SEPTEMBER 2024.**

WHERE CAN I FIND OUT MORE ABOUT THESE COURSE OPTIONS?

Course descriptions can be found on Workday and the Course Descriptions page of the UBC Academic Calendar. Remember to consider program and specialization requirements when planning for your module courses.

WHAT IF I TOOK A COURSE/WANT TO TAKE A COURSE THAT ISN'T ON THIS LIST, THAT I THINK MIGHT BE SUITABLE FOR MODULE COURSE CREDIT?

Courses not on the module course list may still be granted module credit with the permission of the Program Chair. Sending a request does not guarantee approval. Find out more about this process on the [Cognitive Systems program website](#). Information about making a request can be found at the bottom of the Module Course list page.

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I THINK I NOTICED A MISTAKE IN THIS GUIDE.

Oh no! Please feel free to shoot us an email, Discord message, or Instagram message. Remember that this guide is not a replacement for your Workday Academic Progress report, which will contain the most updated information regarding course and program requirements.

I STILL HAVE QUESTIONS.

Please see the [FAQ on the Cognitive Systems Program Website](#). If you still have questions about Module Courses or Program requirements, contact your Program Advisor. For questions about faculty requirements, please reach out to your Faculty Advising office.