

MASTER DEGREE IN “COGNITIVE SCIENCE” - EDUCATIONAL OFFER A.Y. 2026/2027

TRACK: *COGNITIVE NEUROSCIENCE*

MANDATORY COURSES 1ST YEAR (Cohort 2026/2027)

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154103	Foundations of Cognitive Psychology and Neuroscience I	42	6	M-PSI/01 / PSIC-01/A	Caratteriz.	1	Luca Turella (20 hours) Scott Fairhall (22 hours)	in common with FBN track
1	154104	Foundations of Cognitive Psychology and Neuroscience II	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	2	Manuela Piazza (22 hours) DOC.RIF. Corrado Corradi-Dell'Acqua (20 hours) DOC.RIF.	
1	154136	Introduction to Computer Programming (Matlab)	42	6	ING INF/05 / IINF-05/A	Caratteriz.	1	Scott Fairhall (42 hours) / Ingmar de Vries (42 hours)	
1	154080	Neural Foundations of Human Behaviour	42	6	BIO/09 / BIOS-06/A	Caratteriz.	1	Luigi Cattaneo DOC.RIF.	in common with FBN track
1	154134	Foundations of Brain Imaging	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	1	Jorge Jovicich (22 hours) DOC.RIF. Daniel Baldauf (20 hours)	CLC track students cannot attend this course as “free choice” course

CONSTRAINED CHOICE COURSES 1ST YEAR- choose one course among the following:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154148	Introduction to Statistical Methods	63	9 (6+3)	6 CFU M-PSI/02 / PSIC-01/B 3 CFU ING INF/05 / IINF-05/A	Caratteriz.	2	Veronica Mazza (14 hours) Stefania Bracci (14 hours) Scott Fairhall (14 hours) Ingmar de Vries (21 hours)	in common with CLC and FBN tracks
1	154167	Advanced Statistical Methods	63	9 (6+3)	6 CFU M-PSI/02 / PSIC-01/B 3 CFU ING INF/05 / IINF-05/A	Caratteriz	2	Stefania Benetti (32) Simona Monaco (31)	in common with CLC and FBN tracks

CONSTRAINED CHOICE COURSES 1ST YEAR- choose one course among the following:

1	154165	Brain Asymmetries in Language and Cognition	42	6	L-LIN/01 / GLOT-01/A	Caratteriz.	2	Costanza Papagno (10 hours) Selene Schintu (32 hours)	in common with FBN track
1	154152	Introduction to Human Language	42	6	L-LIN/01 / GLOT-01/A	Caratteriz.	1	Roberto Zamparelli DOC.RIF.	

CONSTRAINED CHOICE COURSES 1ST YEAR- choose two courses among the following:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154120	Clinical Neurology and Neuropsychology	42	6	M-PSI/08 / PSIC-04/B	Affine	1	Alessandra Dodich (38 hours) Selene Schintu (4 hours)	

1	154119	Fundamental Hands-on Functional Neuroimaging Analysis	42	6	M-PSI/02 / PSIC-01/B	Affine	2	Jorge Jovicich (22 hours) Daniel Baldauf (20 hours)	This course is defined as a 'Lab'.
1	154137	Cognitive neuroscience of infant development	42	6	M-PSI/02 / PSIC-01/B	Affine	2	Eugenio Parise	in common with FBN track
1	154094	Current Topics in Brain Connectivity	42	6	M-PSI/02 / PSIC-01/B	Affine	2	Daniel Baldauf	
1	154138	Scientific Communication	42	6	M-PSI/02 / PSIC-01/B	Affine	2	Stefania Bracci (36 hours) Uwe Mayer (12 hours), Elisa Frasnelli (14)	

MANDATORY ACTIVITIES 2nd year (Cohort 2025/2026)*

2	154127	Advanced Cognitive Psychology and Neuroscience	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	1	Scott Fairhall (8 hours) Scott Fairhall (8) / Moritz Wurm (8) Luca Turella (26) /Scott Fairhall (26)	
2	154038	Internship	375	15	NN	F	annual		
2	154039	Master Thesis	750	30	PROFIN_S	E	annual		

Masters program in "COGNITIVE SCIENCE" Educational Offer a.y. 2026/2027**TRACK: COMPUTATIONAL AND THEORETICAL MODELLING OF LANGUAGE AND COGNITION (CLC)****MANDATORY COURSES 1ST YEAR (Cohort 2026/2027)**

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154139	Foundations of Cognitive Psychology and Neuroscience	63	9	M-PSI/01 / PSIC-01/A	Caratteriz.	1	Roberto Bottini DOC.RIF.	
1	154140	Introduction to Computer Programming (Python)	42	6	INF/01 / INFO-01/A	Caratteriz.	1	Paolo Rota	
1	154130	Mathematical basics for Cognitive Science	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	1	Elisa Frasnelli	
1	154141	Machine Learning for NLP	42	6	ING INF/05 / IINF-05/A	Caratteriz.	2	Stefano Teso	
1	154152	Introduction to Human Language	42	6	L-LIN/01 / GLOT-01/A	Caratteriz.	1	Roberto Zamparelli DOC.RIF.	
1	154147	Computational linguistics	42	6	ING INF/05 / IINF-05/A	Caratteriz.	2	Roberto Zamparelli DOC.RIF.	

CONSTRAINED CHOICE COURSES 1ST YEAR- choose one course among the following:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154101	Introduction to Statistical Methods	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	2	Veronica Mazza (14 hours) Stefania Bracci (14 hours) Scott Fairhall (14 hours)	in common with CN and FBN tracks
1	154167	Advanced Statistical Methods	42	6	M-PSI/02 / PSIC-01/B	Caratteriz	2	Stefania Benetti (32) Simona Monaco (31)	in common with CLC and FBN tracks

CONSTRAINED CHOICE COURSES 1st or 2nd YEAR- choose two courses among the following:

Year	Code	Course name	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
2	154144	Machine Learning for NLP II	42	6	ING INF/05 / IINF-05/A	Affine	1	Stefano Teso	This course is at an advanced level: therefore, a good knowledge in Machine Learning for NLP is pre-requisite
1	154088	Human Language Technologies	42	6	ING INF/05 / IINF-05/A	Affine	2	Carlo Strapparava	
1	154061	Logical Structures in Natural Language	42	6	M-FIL/05 / PHIL-04/B	Affine	2	Roberto Zamparelli	
1	154145	Semantics and Cognition	42	6	M-FIL/05 / PHIL-04/B	Affine	1	Jakub Szymanik	

MANDATORY ACTIVITIES 2nd YEAR (Cohort 2025/2026)*

2	154142	Computational Modelling of Perception	42	6	M-PSI/02 / PSIC-01/B	Caratteriz.	1	Stefania Bracci (42 hours)	
2	154038	Internship	375	15	NN	F	Annual		
2	154039	Master Thesis	750	30	PROFIN_S	E	Annual		

Masters program in "COGNITIVE SCIENCE" Educational Offer a.y. 2026/2026**TRACK: FUNDAMENTAL BEHAVIOURAL NEUROSCIENCE (FBN)****MANDATORY COURSES 1ST YEAR (Cohort 2026/2027)**

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154103	Foundations of Cognitive Psychology and Neuroscience I	42	6	M-PSI/01 / PSIC-01/A	Caratteriz.	1	Luca Turella (20 hours) Scott Fairhall (22 hours)	in common with CN track
1	154166	Introduction to Computer Programming for FBN (Matlab)	42	6	ING-INF/05 / IINF-05/A	Caratteriz.	1	Moritz Wurm (42 hours)	
1	154080	Neural Foundations of Human Behaviour	42	6	BIO/09 / BIOS-06/A	Caratteriz.	1	Luigi Cattaneo DOC.RIF.	in common with CN track
1	154146	Animal Cognition and Neuroscience	63	9	M-PSI/02 / PSIC-01/B	Caratteriz	2	Giorgio Vallortigara (28 hours) Paola Sgadò (21 hours) Uwe Mayer (14 hours)	

CONSTRAINED CHOICE COURSES 1ST YEAR- choose one course among the following:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154148	Introduction to Statistical Methods	63	9 (6+3)	6 CFU M-PSI/02 / PSIC-01/B 3 CFU ING INF/05 / IINF-05/A	Caratteriz.	2	Veronica Mazza (14 hours) Stefania Bracci (14 hours) Scott Fairhall (14 hours) Ingmar de Vries (21 hours)	in common with CLC and FBN tracks
1	154167	Advanced Statistical Methods	63	9 (6+3)	6 CFU M-PSI/02 / PSIC-01/B 3 CFU ING INF/05 / IINF-05/A	Caratteriz	2	Stefania Benetti (32) Simona Monaco (31)	in common with CLC and FBN tracks

CONSTRAINED CHOICE COURSES 1ST YEAR- choose one course among the following:

1	154165	Brain Asymmetries in Language and Cognition	42	6	L-LIN/01 / GLOT-01/A	Caratteriz.	2	Costanza Papagno (10 hours) Selene Schintu (32 hours)	in common with CN track
1	154152	Introduction to Human Language	42	6	L-LIN/01 / GLOT-01/A	Caratteriz.	1	Roberto Zamparelli DOC.RIF.	

CONSTRAINED CHOICE COURSES 1st YEAR- choose two courses among the following:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1	154118	Cellular and Molecular Neuroscience	63	9	M-PSI/02 / PSIC-01/B	6 cfu Affine 3 cfu a scelta libera	2	Paola Sgadò (63 hours) Andrea Messina (21 hours – co-teaching)	The course includes 21 hours of laboratory exercises (at CIBIO).
1	154150	Comparative Neuroanatomy and Evolution	42	6	M-PSI/02 / PSIC-01/B	Affine	1	Uwe Mayer	
1	154137	Cognitive neuroscience of infant development	42	6	M-PSI/02 / PSIC-01/B	Affine	2	Eugenio Parise	in common with CN track

1	154151	Invertebrate Neuroscience	42	6	M-PSI/02 / PSIC-01/B	Affine	1	Elisa Frasnelli	
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MANDATORY ACTIVITIES 2nd YEAR (Cohort 2025/2026) *

2	154149	Brain Development and Disease	63	9	BIO/09 / BIOS-06/A	Caratterizz	1	Yuri Bozzi Andrea Messina (20 hours co teaching)	
2	154038	Internship	375	15	NN	F	annual		
2	154039	Master Thesis	750	30	PROFIN_S	E	annual		

FREE CHOICE COURSES FOR CN, CLC AND FBN.
Choose 12 credits (max.15)

FREE CHOICE COURSES OFFERED BY CIMEc:

Year	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
2	154122	Advanced Hands on fMRI Analysis	42	6	M-PSI/02 / PSIC-01/B	A scelta	1	Stefania Bracci (18 hours) Moritz Wurm (14 hours) Scott Fairhall (10 hours)	This course is defined as a 'Lab'. Prerequisite – Fundamental Hands on Neuroimaging
1 or 2	154123	Advanced Hands on M/EEG Analysis	42	6	M-PSI/02 / PSIC-01/B	A scelta	2	Paolo Belardinelli	This course is defined as a 'Lab'.
1 or 2	154112	Advanced Topics in Reasoning and Decision Making	42	6	M-PSI/01 / PSIC-01/A	A scelta	1	Stefania Pighin	
1 or 2	154113	Advanced Topics in Motor Cognition	42	6	BIO/09 / BIOS-06/A	A scelta	2	Luca Turella	
1 or 2	154156	Brain Stimulation and Multimodal Electrophysiological Recording	42	6	BIO/09 / BIOS-06/A	A scelta	1	Paolo Belardinelli (22 hours) Carlo Miniussi (20 hours)	
1 or 2	154153	Language and Social Cognition	42	6	M-PSI/02 / PSIC-01/B	A scelta	1	Uri Hasson	
1 or 2	154157	Cognitive Impairment and Dementia	42	6	MED/26 / MEDS-12/A	A scelta	1	Giorgio Fumagalli	
1 or 2	154158	Language modeling and human cognition.	42	6	INF-01 / INFO-01/A	A scelta	2	Jakub Szymanik (32 hours) TBA (10 hours)	
1 or 2	154159	Affective Neuroscience	42	6	M-PSI/02 / PSIC-01/B	A scelta	2	Corrado Corradi Dell'Acqua DOC RIF	
1 or 2	154160	Methods in Comparative Neuroanatomy	21	3	M-PSI/02 / PSIC-01/B	A scelta	2	Uwe Mayer	This course is run twice in two groups, each group 21 hours (3 credits). Enrolment is limited to 14 students (7 per group), with priority given to those who have passed 154150 Comparative Neuroanatomy and Evolution. Safety training is required.
1	154161	Bridging to Cognitive Neuroscience	21	3	M-PSI/02 / PSIC-01/B	A scelta	1	Stefania Bracci	
1	154162	Bridging to Fundamental Behavioural Neuroscience	21	3	M-PSI/02 / PSIC-01/B	A scelta	1	Elisa Frasnelli (6 hours) Paola Sgadò (15 Hours)	
1 or 2	154163	Predictive Processing in the Brain: Perception and Action	21	3	M-PSI/02 / PSIC-01/B	A scelta	2	Ingmar de Vries	
1 or 2	154164	Project-Based EEG Laboratory	42	6	M-PSI/02 / PSIC-01/B	A scelta	2	Veronica Mazza	Enrolment limited to 8 students or less. Safety training is required.

EXTRA-CREDIT EDUCATIONAL ACTIVITIES (*)

EXTRA	Code	Course	Hours	Credits	SSD	TAF	Semester	Professor(s)	Info
1 or 2	154168	Training to animal research	21	3	BIO/09 / BIOS-06/A	D	1	Paola Sgadò	Course shared with the Psychology degree program DiPSCo

* Preparatory activity for the access to and conduct of laboratory activities involving animals; for organizational details, please contact the professor.