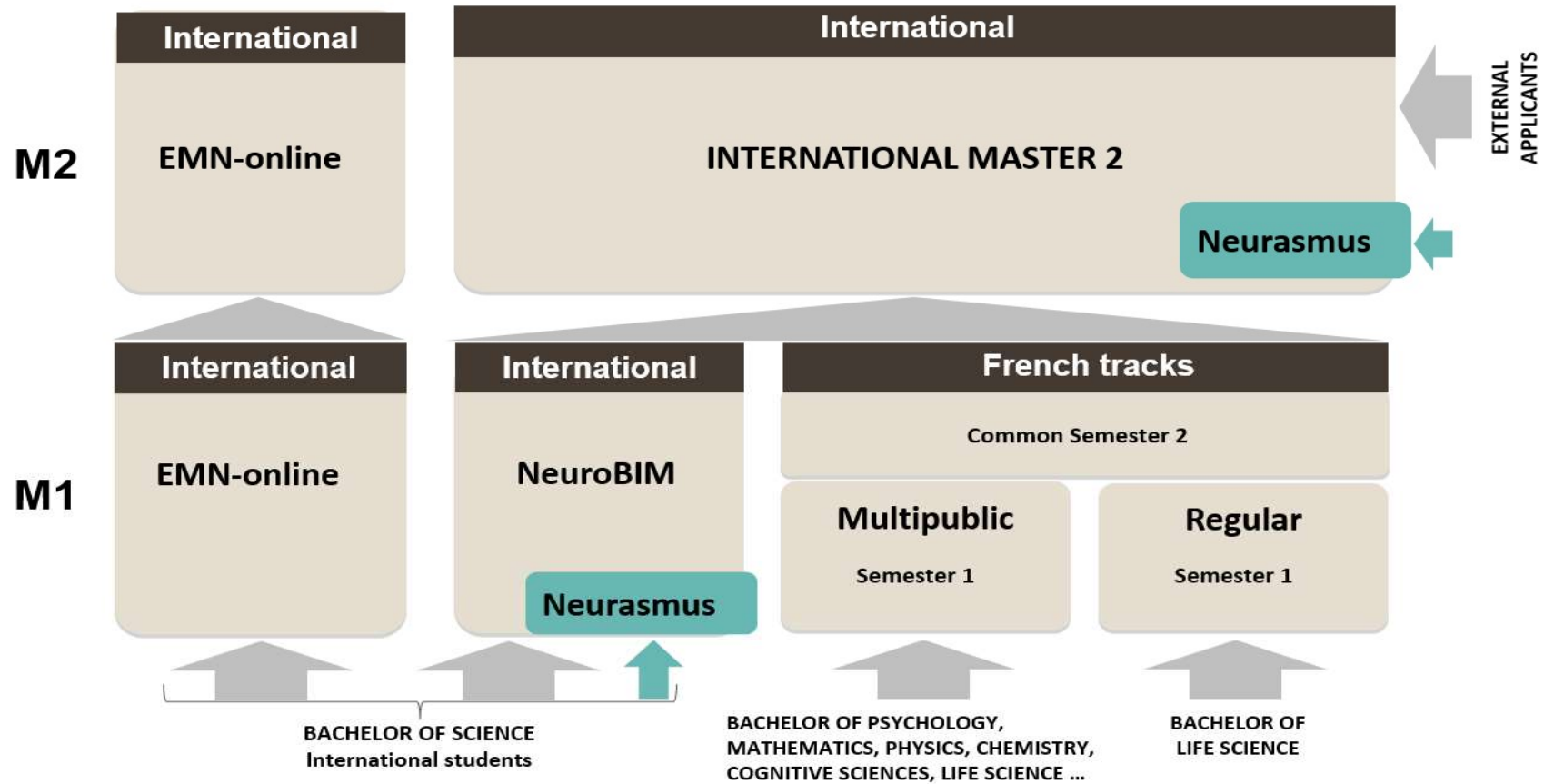


MASTER PROGRAMS OF NEUROSCIENCE – *Bordeaux University*



Master Neurosciences 1st year - Multipublic Track (French track)
Persons in charge: Muriel Darnaudery & Thomas Michelet

	Unit names	ECTS	Persons in charge	Statut		
Semester 7	Scientific Communication	3	J. Pagèze, D. Voisin	Mandatory		
	Démarche expérimentale en Neurosciences	5	M. Darnaudery, T. Michelet	Mandatory		
	Communication neuronale	9	G. Drutel	Mandatory		
	Neuroanatomie fonctionnelle	5	P. Branchereau	Mandatory		
	Innovations technologiques en Neurosciences	3	M. Jego	Mandatory		
	Introduction aux Neurosciences	5	M. Darnaudery, T. Michelet	Mandatory		
Semester 8	Initiation à la Recherche en Neurosciences (including 2 months internship)	12	P. de Deurwaerdere, M, Darnaudery	Mandatory		
	Emotions et cognition: théories et modèles animaux	9	J.L. Guillou, A. Desmedt	Elective	Students have to choose between "emotion Cognition" OR "Plasticity"	All these Units are shared with M1 Regular
	Plasticité du système nerveux	9	R. Nargeot	Elective		
	Mouvement et sensations	9	L. Juvin, M. Jego	Elective	Students have to choose between "Mouvement et sensations" OR "Pharmacologie"	
	Pharmacologie générale et Neuropharmacologie	9	P. de Deurwaerdere	Elective		

Master Neurosciences st year - Regular Track (French track)
Person in charge: Philippe De Deurwaeredere

	Unit names	ECTS	Persons in charge	Statut		
Semester 7	Scientific Communication	3	J. Pagèze, D. Voisin	Mandatory		
	Approches expérimentales avancées en biologie	12	G. Drutel	Mandatory		
	Projet Tutoré	3	V. Mayo	Mandatory		
	Neurosciences fondamentales	12	D. Voisin	Mandatory		
Semester 8	Initiation à la Recherche en Neurosciences (including 2 months internship)	12	P. de Deurwaeredere, L. Juvin	Mandatory		
	Emotions et cognition: théories et modèles animaux	9	J.L. Guillou, A. Desmedt	Elective	Students have to choose between "emotion Cognition" OR "Plasticity"	All these Units are shared with M1 Multipublic
	Plasticité du système nerveux	9	R. Nargeot	Elective		
	Mouvement et sensations	9	L. Juvin, M. Jego	Elective	Students have to choose between "Mouvement et sensations" OR "Pharmacologie"	
Pharmacologie générale et Neuropharmacologie	9	P. de Deurwaeredere	Elective			

Master Neurosciences - NeuroBIM & Neurasmus 1st year (International track)

Persons in charge: Daniel voisin & Elena Avignone for NeuroBIM

+ Morgane Jego & Pascal Fossat for NEURASMUS

	Unit names	ECTS	Persons in charge	Statut
Semester 7	Scientific Communication	3	J. Pagèze, D. Voisin	Mandatory
	Statistics and Neural Modelling	3	R. Nargeot	Mandatory
	Tutored Project	3	E. Avignone, E. Harrell	Mandatory
	Functional Neuroanatomy	5	D. Voisin	Mandatory
	Neurophysiology	4	E. Avignone	Mandatory
	Molecular Neurobiology & Development	4	G. Drutel	Mandatory
	Neuropharmacology	4	P. de Deurwaerdere	Mandatory
	Higher Brain Functions	4	A. Desmedt	Mandatory
Semester 8	Traineeship (5 month)	30	D. Voisin, A. Avignone	Mandatory

Master Neurosciences International 2nd year + Neurasmus
Persons in charge: Karine Massé & Denis Combes

	Unit names	ECTS	Persons in charge	Statut		
Semester 9	Epistemology, development & communication of a research project	6	A. Desmedt	Mandatory	Free choice to reach the 30ECTS	
	UB Create (Entrepreneurship)	6	A. Nadjar	Mandatory		
	Current research in neurosciences : from molecules to circuits	9	E. Avignone / A. Czarnecki	Elective		not compatible
	Cognitive and behavioural Neuroscience	9	A. Desmedt / JL Guillou	Elective		
	Addiction	6	M. Auriacombe	Elective		
	From Neuronal circuits to behaviour	6	D. Combes	Elective		
	Pathophysiology of Neurological & Psychiatric Diseases	6	T. Michelet	Elective		
	Developmental neuroscience	3	K. Massé	Elective		
	Psychoneuroimmunology - Mind-Body interactions	3	M. Darnaudery / A. Nadjar	Elective		
	Introduction to structural and functional neuroimaging in Human	3	E. Mellet	Elective		
	Programming for data analysis	3	A. Leblois	Elective		
Advanced Topics in Cellular Bio-Imaging - EUR Light	3	V. Nägerl	Elective			
Semester 10	Research project (5 months internship)	30	A. Nadjar, D. Combes	Mandatory		

Master Neurosciences 1st year - EMN-Online
Persons in charge: Marc LANDRY

	Unit names	ECTS	Persons in charge	Statut	
Semester 7	Scientific and Intercultural Communication in English	3	J Pageze	Mandatory	
	Functional and cognitive neuroanatomy	9	F Olucha (Spain)	Mandatory	
	Bioinformatics	9	M. Gad (Egypt)	Mandatory	
	Cell Neurobiology and Physiology	9	M. Landry	Mandatory	
Semester 8	Behaviour, Emotion, Cognition	6	R.M. Vouimba	Mandatory	
	Experimental approaches in Neuropathology	6	M. Landry	Mandatory	
	Training - Methodology	6	M. Landry	Mandatory	
	Case Study in Neurobiology	6	I. Perroteau (Italy)	Elective	Choice of 2 Units
	Developmental Neurobiology and Ageing	6	S. de Marchis (Italy)	Elective	
	Genomics and Proteomics	6	Olf Masmoudi (Tunisia)	Elective	
Neuropharmacology	6	P. de Deurwaerdere	Elective		

Master Neurosciences 2nd year - EMN-Online
Persons in charge: Marc LANDRY

	Unit names	ECTS	Persons in charge	Statut	
Semester 9	Economy, Law, Regulations & Bioethics	6	J. Tamraz (Lebanon)	Mandatory	Free choice of Units in order to get 30 ECTS
	Drug development	3	C. Mésenge (Paris)	Mandatory	
	Neuroendocrinology and Neurobiology of food intake	6	A. Blasiak (Poland)	Elective	
	From perception to action	6	L. Casini (Marseille)	Elective	
	From sensation to perception	6	F. Olucha (Spain)	Elective	
	Neurogenesis and stem cells	6	A. Bassiouny (Egypt)	Elective	
	Intégrative physiology	6	L. Pézard & P. Vuillez (Strasbourg)(Marseille)	Elective	
	Computational Neuroscience	3	Marcel Carrère (Marseille)	Elective	
	Cell communication and Plasticity	9	M. Landry (Bordeaux)	Elective	
	NeuroImmunoGenetics and inflammatory disorders	6	Olfa Masmoudi (Tunisia)	Elective	
	Neuroprotection and Therapeutic approaches	6	Olfa Masmoudi (Tunisia)	Elective	
	Clinical Neuroscience	6	Riadh Gouider (Tunisia)	Elective	
	Neuroimaging	3	M. Landry & S. Forkel	Elective	
	Clinical Neurophysiology	3	Riadh Gouider (Tunisia)	Elective	
Semester 10	EMN Internship (5 months)	30	M. Landry	Mandatory	