

Studies Plan

EDNE - Neuroscience 2022-23

Core courses

Courses				Exam	Credit
Language Code	Section	Teacher			
Advanced topics in network neuroscience (Next time: Fall 2022)					
E	EE-619	EDEE	Amico	Written	2
Data Science applications in Neuroimaging (Postponed to spring 2023)					
E	BIO-641	EDNE	Dayan	Written	2
Introduction to Applied Data Science (I2ADS) (Fall 2022)					
E	BIO-645	EDNE	Dayan	Written	2
Lecture series on scientific machine learning (Next time: Fall)					
E	PHYS-754	EDPY	Carleo Ceriotti De Los Rios Mathis Schwaller Wyart Zdeborová	Oral presentation	2
Mathematical methods for neuroscience					
E	BIO-612	EDNE	Kanari	Project report	3
Planning your scientific journey (Zoom meeting times will be determined according to the professor and participants availabilities.)					
E	BIO-652	EDNE	Ramdya	Written & Oral	1
State of the Art Topics in Neuroscience X (February 2023)					
E	BIO-693(10)	EDNE	Gräff Invited lecturers Sandi Perez	Written	1
State of the Art Topics in Neuroscience XIII					
E	BIO-642	EDNE	Gerstner	Term paper	1
Symmetry and Conservation in the Cell (Next time: Spring 2023)					
E	BIO-692	EDNE	Shillcock	Multiple	3
Training Rotation (EDNE) (All year long -Training rotations must be approved by the supervisor, by the host laboratory, as well as by the doctoral program director)					
E	BIO-699(n)	EDNE	Profs divers	Project report	1

Other doctoral courses (EDOC)

Courses				Exam	Credit
Language Code	Section	Teacher			
Advanced biomedical imaging methods and instrumentation (Next time: Fall)					
E	PHYS-719	EDPY	Mishkovsky	Term paper	4
Advanced Microscopy for Life Science (Every year in September. To register, contact EDMS Administration)					
E	BIO-659	EDMS	Seitz	Oral presentation	3
Basic principles of drug action at the nervous system (Next time: Spring 2023)					
E	CH-603	EDCH	Invited lecturers Kellenberger	Written	1
Optimization and simulation (Next time: Spring 2023)					
E	MATH-600	EDCE	Bierlaire	Multiple	4
Responsible Conduct in Biomedical Research (Fall)					

(Next time: Fall 2022)

E	BIO-664(A)	EDBB	Glusker	Oral	1
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Responsible Conduct in Biomedical Research (Spring)

(Next time: Spring 2023)

E	BIO-664(B)	EDBB	Glusker	Multiple	1
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Scientific writing for biomedical articles (Fall)

(Next time: Fall 2022)

E	BIO-686(A)	EDBB	Bless Le Duc	Project report	1
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Master courses

Courses					
Language	Code	Section	Teacher	Exam	Credit
Analysis and modelling of locomotion					
E	BIOENG-404	SV	Aminian Courtine Ijspeert	During the semester	4
Computational neurosciences : neuronal dynamics					
E	NX-465	NX	Gerstner	Written	5
Neuroscience: behavior and cognition					
E	BIO-483	SV	Blanke Herzog Sandi Perez	Written	5
Neuroscience: cellular and circuit mechanisms					
E	BIO-482	SV	Crochet Petersen	During the semester	5
Neuroscience: from molecular mechanisms to disease					
E	BIO-480	SV	Gräff Lashuel Schneider	Written	5
Understanding statistics and experimental design					
E	BIO-449	SV	Herzog	Written	4