

## Studies Plan

### EDNE - Neuroscience 2023-24

#### Core courses

Courses				Exam	Credit
Language	Code	Section	Teacher		
<b>Advanced topics in network neuroscience</b> (Next time: TBA)					
E	EE-619	EDEE	Amico	Written	2
<b>Lecture series on scientific machine learning</b> (Next time: Fall 2024)					
E	PHYS-754	EDPY	Carleo Ceriotti De Los Rios Mathis Schwaller Wyart Zdeborová	Oral presentation	2
<b>Mathematical methods for neuroscience</b> (Next time: Fall 2024)					
E	BIO-612	EDNE	Kanari	Project report	3
<b>Neuroeconomics / Decision Neuroscience</b> (From June 10th to 14th, the course runs every morning 9h15-10h45 and 11h10 - 12h40)					
E	BIO-620	EDNE	Invited lecturers	Project report	2
<b>ORPER summer school</b>					
E	BIO-604	EDNE	Fantner Heyard	Project report	2
<b>Planning your scientific journey</b> (Next time in 2025-26 Zoom meeting times will be determined according to the professor and participants availabilities.)					
E	BIO-652	EDNE	Ramdyia	Written & Oral	1
<b>Stress and Resilience: Exploring New Horizons</b>					
E	BIO-606	EDNE	Sandi	Written	1
<b>Stroke: from mechanism to neurotechnology</b>					
E	BIO-605	EDNE	Hummel	Written	1
<b>Symmetry and Conservation in the Cell</b> (Next time: Spring 2023)					
E	BIO-692	EDNE	Shillcock	Multiple	3
<b>Training Rotation (EDNE)</b> (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	Gräff Profs divers	Project report	1
<b>Training Rotation (EDNE)</b> (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(o)	EDNE	Gräff Profs divers	Project report	1
<b>Training Rotation (EDNE)</b> (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(p)	EDNE	Gräff Profs divers	Project report	1

#### Other doctoral courses (EDOC)

<b>Courses</b>			<b>Exam</b>	<b>Credit</b>
Language Code	Section	Teacher		
<b>Advanced biomedical imaging methods and instrumentation</b>				
<i>(Next time: Fall 2023 )</i>				
E	PHYS-719	EDPY	Invited lecturers Lê Mishkovsky	Term paper 4
<b>Advanced Microscopy for Life Science</b>				
<i>(Every year in September. To register, contact EDMS Administration )</i>				
E	BIO-659	EDMS	Seitz	Oral presentation 3
<b>Basic principles of drug action at the nervous system</b>				
<i>(Next time Spring 24)</i>				
E	CH-603	EDCH	Invited lecturers Kellenberger	Written 1
<b>Optimization and simulation</b>				
<i>(Next time: Spring 2024)</i>				
E	MATH-600	EDCE	Bierlaire	Multiple 4
<b>Responsible Conduct in Biomedical Research (Fall)</b>				
<i>(Next time: Fall 2023)</i>				
E	BIO-664(A)	EDBB	Glousker	Oral 1
<b>Responsible Conduct in Biomedical Research (Spring)</b>				
<i>(Next time: Spring 2024)</i>				
E	BIO-664(B)	EDBB	Glousker	Multiple 1
<b>Scientific writing for biomedical articles (Fall)</b>				
<i>(Next time: Fall 2023)</i>				
E	BIO-686(A)	EDBB	Bless Le Duc	Project report 1

#### Master courses

<b>Courses</b>			<b>Exam</b>	<b>Credit</b>
Language Code	Section	Teacher		
<b>Computational neurosciences: neuronal dynamics</b>				
E	NX-465	NX	Gerstner	Written 5
<b>Neuroscience: behavior and cognition</b>				
E	BIO-483	SV	Blanke Herzog Sandi	Written 5
<b>Neuroscience: cellular and circuit mechanisms</b>				
E	BIO-482	SV	Crochet Petersen	During the semester 5
<b>Neuroscience: from molecular mechanisms to disease</b>				
E	BIO-480	SV	Gräff Lashuel Schneider	Written 5
<b>Understanding statistics and experimental design</b>				
E	BIO-449	SV	Herzog	Written 4