

## Studies Plan

### EDLS - Learning Sciences 2023-24

#### Core courses

Courses			Exam	Credit
Language Code	Section	Teacher		
<b>Designing activities for developing and assessing computational thinking skills</b> (Next time: Spring 2024)				
E	LEARN-602	EDLS	Mondada Piatti Oral	3
<b>Introduction to Methods in Learning Sciences 1</b> (Next time: Fall 2023)				
E	LEARN-610	EDLS	Dillenbourg Kapur During the semester	2
<b>Introduction to Methods in Learning Sciences 2</b> (Next time: spring 2024)				
E	LEARN-611	EDLS	Dillenbourg Kapur During the semester	2
<b>JDPLS Summer school</b> (Next time: Sept. 2023)				
E	LEARN-701	EDLS	Dillenbourg Kapur Oral	1
<b>JDPLS Winter school</b> (Next time: Feb. 2024)				
E	LEARN-700	EDLS	Dillenbourg Kapur Oral	1
<b>Theoretical Foundations of Learning Sciences 1</b> (Next time: fall 2023)				
E	LEARN-600	EDLS	Dillenbourg Kapur During the semester	2
<b>Theoretical Foundations of Learning Sciences 2</b> (Next time: spring 2024)				
E	LEARN-601	EDLS	Dillenbourg Kapur During the semester	2

#### Other doctoral courses (EDOC)

Courses			Exam	Credit
Language Code	Section	Teacher		
<b>Topics in Computational Social Science (TopiCSS)</b> (Next time: Spring 2024)				
E	CS-727	EDIC	West Multiple	2
<b>Topics in Machine Learning for Education</b> (Not offered this year)				
E	CS-702	EDIC	Käser Jacober Oral	2

#### Master courses

Courses			Exam	Credit
Language Code	Section	Teacher		
<b>Applied data analysis</b>				
E	CS-401	SC	West Written	8
<b>Computational Social Media</b>				
E	DH-500	DH	Gatica-Perez During the semester	4
<b>Data visualization</b>				
E	COM-480	SC	Vuillon During the semester	6
<b>Deep learning</b>				
E	EE-559	EL	Cavallaro During the semester	4
<b>Digital education</b>				
E	CS-411	IN	Dillenbourg Jermann Written	6

<b>Distributed information systems</b>					
E	CS-423	SC	Aberer	Written	6
<b>Foundations of digital humanities</b>					
E	DH-405	DH	Kaplan	During the semester	6
<b>How people learn: Designing Learning Tools I</b>					
<i>(Une seule inscription à un cours SHS+MGT autorisée. En cas d'inscriptions multiples elles seront toutes supprimées sans notification.)</i>					
E	HUM-432	SHS	Kotluk Tormey	During the semester	3
<b>How people learn: Designing Learning Tools II</b>					
<i>(Une seule inscription à un cours SHS+MGT autorisée. En cas d'inscriptions multiples elles seront toutes supprimées sans notification.)</i>					
E	HUM-433	SHS	Kotluk Tormey	During the semester	3
<b>Human computer interaction</b>					
F	CS-213	IN	Egger	Written	5
<b>Information security and privacy</b>					
E	COM-402	IN	Payer	Written	8
<b>Intelligent agents</b>					
E	CS-430	IN	Faltings	During the semester	6
<b>Introduction to natural language processing</b>					
E	CS-431	IN	Bosselut Chappelier Rajman	Written	6
<b>Machine learning</b>					
E	CS-433	IN	Flammarion Jaggi	Written	8
<b>Machine learning for behavioral data</b>					
<i>(pas donné en 2023-24)</i>					
E	CS-421	IN		Written	6
<b>Machine learning for DH</b>					
E	DH-406	DH	Salzmann	Written	4
<b>Social media</b>					
<i>(Pas donné en 2023-24)</i>					
E	EE-593	EL		During the semester	2
<b>Virtual reality</b>					
E	CS-444	IN	Boulic	During the semester	6