

Studies Plan

Humanités digitales 2023-24

Block 1

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language	Code	Section	Teacher	Specialization	o p	l e p	
E	Applied data analysis						
	CS-401	SC	West	2h	2h		Win
							Written
							8
E	Computational Social Media						
	DH-500	DH	Gatica-Perez		2h	1h	Sum
							During the
							semester
							4
E	Foundations of digital humanities						
	DH-405	DH	Kaplan	4h	2h		Win
							During the
							semester
							6
E	Machine learning for DH						
	DH-406	DH	Salzmann	2h	2h		Win
							Written
							4

Block 2

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language	Code	Section	Teacher	Specialization	o p	l e p	
	HSS : Project						
		SHS					Sum
							3
E	Cultural data sculpting						
	DH-404	DH	Kenderdine		2h	3h	Sum
							During the
							semester
							5
E	Design research for digital innovation						
	DH-411	DH	Henchoz	2h	1h	2h	Win
							During the
							semester
							5
E	Digital musicology						
	DH-401	DH	Rohrmeier		3h	2h	Sum
							During the
							semester
							6
E	History and the digital						
	DH-412	DH	Baudry		2h	3h	Sum
							During the
							semester
							5
	HSS : Introduction to project						
		SHS					Win
							3

Group "options" (.)

Courses			Master 1	Master 2	Exam Session	Exam	Credit
Language	Code	Section	Teacher	Specialization	o p	l e p	
E	Advanced computer graphics						
	CS-440	IN	Jakob		2h	2h	Sum
							During the
							semester
							6
E	Artificial neural networks/reinforcement learning						
	CS-456	IN	Gerstner		2h	2h	Sum
							Written
							6
E	Automatic speech processing						
	EE-554	EL	Magimai Doss	2h	1h		Win
							Written
							3
E	Causal inference						
	MGT-416	MTE			2h	1h	Sum
							During the
							semester
							4
E	Causal thinking						
	MATH-352	MA	Stensrud	2h	2h		Win
							Written
							5
E	Computational photography						
	CS-413	SC	Süsstrunk		2h	2h	Sum
							During the
							semester
							6
E	Computers and music						
	COM-418	SC			2h	1h	Sum
							During the
							semester
							6
E	Computer vision						
	CS-442	IN	Fua		2h	1h	Sum
							Written
							6
E	Data visualization						
	COM-480	SC	Vuillon		2h	2h	Sum
							During the
							semester
							6

E	Decision-aid methodologies in transportation CIVIL-557	GC	Paschalidis Torres	2h	2h	Sum	During the semester	4	
E	Deep learning EE-559	EL	Cavallaro	2h	2h	Sum	During the semester	4	
E	Design in innovation: creation for adoption MGT-406	MTE	Henchoz Laperrouza	2h	2h	Sum	During the semester	4	
E	Digital education CS-411	IN	Dillenburg Jermann	2h	2h	Win	Written	6	
E	Distributed information systems CS-423	SC	Aberer	2h	1h	Win	Written	6	
E	Ethics and law of AI DH-415	DH	Rochel	2h	1h	Win	Written	4	
E	Experience design CS-489	IN	Huang	2h	4h	Win	During the semester	6	
E	Exploratory data analysis in environmental health ENV-444	SIE		1h	2h	Win	Oral	4	
E	Foundations of Data Science COM-406	IN	Gastpar Urbanke	4h	2h	Win	Written	8	
E	Game design & prototyping DH-414	DH	Javet	2h	1h	Sum	During the semester	4	
E	Image and video processing EE-550	EL		4h	2h	Win	Oral	6	
E	Image processing for Earth observation ENV-540	SIE	Tuia	2h	1h	Win	During the semester	4	
E	Image processing I MICRO-511	MT	Unser Van De Ville	3h		Win	Written	3	
E	Image processing II MICRO-512	MT	Sage Unser Van De Ville	3h		Sum	Written	3	
E	Interaction design CS-486	IN	Pu	2h	1h	1h	Sum	During the semester	6
F	Introduction to BIM (Building Information Modeling) AR-484	AR	Hautecoeur	2h		Win	During the semester	3	
E	Introduction to natural language processing CS-431	IN	Bosselut Chappelier Rajman	2h	2h	Win	Written	6	
E	Linear models MATH-341	MA	Masák	2h	2h	Win	Written	5	
E	Machine learning CS-433	IN	Flammarion Jaggi	4h	2h	Win	Written	8	
E	Machine learning for behavioral data CS-421	IN		2h	2h	Sum	Written	6	
E	Media security EE-552	EL		2h	1h	Sum	Written	6	
E	Modern natural language processing CS-552	IN	Bosselut	3h	2h	1h	Sum	During the semester	8
E	Semester project in digital humanities DH-413(b)	DH	Profs divers	2h	2h	Sum Win	During the semester	12	
E	Strategic marketing & technology commercialization MGT-401	MTE	Eckardt	3h		Win	During the semester	4	

E	Technology & innovation strategy MGT-414	MTE	Fernandes Rodrigues Alves	2h	1h	Sum	During the 3 semester
F	UE H : Graphy AR-433	AR	Métraux Soubeyrand	3h	1h	Sum	During the 4 semester
	UE J : Territory and landscape AR-471	AR	Cogato Lanza Curnier	3h	1h	Win	During the 4 semester
F	UE R: Introduction to BIM (Building Information Modeling) AR-435	AR	Hautecoeur	3h	1h	Sum	During the 4 semester
	UE V : Visions and utopias AR-523	AR	Braghieri Cattapan	3h	1h	Win	During the 4 semester
E	Virtual reality CS-444	IN	Boulic	2h	1h	Sum	During the 6 semester
E	Visual intelligence : machines and minds CS-503	IN	Zamir	2h	2h	Sum	During the 6 semester

Internship

Courses			Master 1	Master 2	MP Autumn	MP Spring	Exam Session	Exam	Credit	
Language	Code	Section	Teacher	Specialization	le p	le p	le p	le p		
	Engineering internship (master in digital humanities)									
F	DH-490	DH	Profs divers		680h	680h	680h	680h	Sum Win	During the 30 semester

Master project

Courses			Master 1	Master 2	MP Autumn	MP Spring	Exam Session	Exam	Credit	
Language	Code	Section	Teacher	Specialization	le p	le p	le p	le p		
	Engineering internship credited with Master Project (master in Digital Humanities)									
E	DH-491	DH	Profs divers		320h	320h	320h	320h	Sum Win	Term paper 0
	Master project in digital humanities									
	DH-499	DH	Profs divers			900h	900h	Sum Win	Oral	30