

Plan d'études

Mineur : Statistique 2025-26

Mineur : Statistique

Cours			Session Examen	Examen	Crédits
Lang.	Code	Sect.	Enseignants		
E	Algorithms II CS-450	IN	Kapralov	Hiv	Ecrit 8
E	Applied biostatistics MATH-493	MA		Eté	Pendant le 5 semestre
E	Applied data analysis CS-401	SC	Brbic	Hiv	Ecrit 8
E	Applied statistics MATH-516	MA	Mhalla	Eté	Pendant le 5 semestre
E	Biostatistics MATH-449	MA		Eté	Ecrit 5
E	Computational linear algebra MATH-453	MA	Kressner	Eté	Ecrit 5
E	Computational optimal transport MATH-528	MA	Chizat	Eté	Ecrit 5
E	Convex optimization MGT-418	MTE	Kuhn	Hiv	Ecrit 5
E	Data visualization COM-480	SC	Vuillon	Eté	Pendant le 6 semestre
E	Deep learning EE-559	EL	Cavallaro	Eté	Pendant le 4 semestre
E	Deep reinforcement learning CS-456	IN		Eté	Ecrit 6
E	Derivatives FIN-404	IF	Hugonnier	Eté	Ecrit 6
E	Empirical processes MATH-522	MA	Limnios	Eté	Ecrit 5
E	Exploratory data analysis in environmental health ENV-444	SIE	Joost Nehme	Hiv	Pendant le 4 semestre
E	Financial big data FIN-525	IF	Challet	Hiv	Pendant le 3 semestre
E	Foundations of Data Science COM-406	IN	Gastpar	Hiv	Ecrit 8
E	Gaussian processes MATH-426	MA	Aru	Hiv	Oral 5
E	Genetics and genomics BIO-373	SV	Deplancke Waszak	Hiv	Ecrit 4
E	Genomics and bioinformatics BIO-463	SV	Bitbol Luisier Rougemont	Eté	Pendant le 4 semestre
E	Information security and privacy COM-402	IN	Payer	Hiv	Ecrit 8
E	Learning theory CS-526	IN	Macris	Eté	Ecrit 6
E	Machine learning for behavioral data CS-421	IN	Käser	Eté	Ecrit 6
E	Markov chains MATH-332	MA	Mountford	Eté	Ecrit 5
E	Martingales in financial mathematics MATH-470	MA	Schmutz	Eté	Oral 5

	Mathematical modelling of behavior					
E	MATH-463	MA	Bierlaire	Hiv	Ecrit	5
	Mathematics of data: from theory to computation					
E	EE-556	EL	Cevher	Hiv	Ecrit	6
	Measure theory					
E	MATH-303	MA	Ackelsberg	Hiv	Ecrit	5
	Multivariate statistics					
E	MATH-444	MA	Panaretos	Eté	Ecrit	5
	Nonparametric estimation and inference					
E	MATH-524	MA	Chandak	Eté	Ecrit	5
	Nutrition: from molecules to health					
E	BIO-441	SV	Descombes Hager Rezzi	Hiv	Pendant le 4 semestre	4
	Optimization for machine learning					
E	CS-439	IN	Flammarion Jaggi	Eté	Ecrit	8
	Probability and stochastic calculus					
E	FIN-415	IF	Perazzi	Hiv	Ecrit	6
	Probability theory					
E	MATH-432	MA	Mountford	Hiv	Ecrit	5
	Randomization and causation					
E	MATH-336	MA	Sturma	Eté	Ecrit	5
	Randomized matrix computations					
E	MATH-403	MA		Hiv	Oral	5
	Regression methods					
E	MATH-408	MA	Limnios	Hiv	Ecrit	5
	Risk and environmental sustainability					
E	MATH-383	MA	Mhalla	Hiv	Ecrit	5
	Sensing and spatial modeling for earth observation					
E	ENV-408	SIE	Berne Skaloud Tuia	Eté	Ecrit	5
	Statistical analysis of network data					
E	MATH-448	MA	Olhede	Hiv	Ecrit	5
	Statistical computation and visualisation					
E	MATH-517	MA	Mhalla	Hiv	Pendant le 5 semestre	5
	Statistical inference					
E	MATH-562	MA	Chandak	Hiv	Ecrit	5
	Statistical machine learning					
E	MATH-412	MA	Obozinski Zemel	Hiv	Ecrit	5
	Statistical theory					
E	MATH-442	MA	Zemel	Eté	Ecrit	5
	Statistics for genomic data analysis					
E	MATH-474	MA		Eté	Pendant le 5 semestre	5
	Stochastic simulation					
E	MATH-414	MA	Nobile	Hiv	Ecrit	5
	Theory of stochastic calculus					
E	MATH-431	MA	Dalang	Hiv	Ecrit	5
	Time series					
E	MATH-342	MA	Olhede	Eté	Ecrit	5
	Topics in machine learning					
E	MATH-520	MA	Chizat	Hiv	Ecrit	5