

## Studies Plan

### EDMA - Mathematics 2024-25

#### Core courses

Courses				Exam	Credit
Language Code	Section	Teacher			
<b>Advanced Scientific Programming in Python</b> (The course expects participants to at least have an intermediate understanding of the Python programming language)					
E	MATH-661	EDMA	Buffa Hinz	Project report	1
<b>Artificial Life</b> (Spring semester)					
E	MATH-642	EDMA	Hongler Papadopoulos	Oral presentation	2
<b>Functional Data Analysis</b> (The lectures will run weekly on Thursdays (13:15-15:00) starting on October 3rd and running through the end of the semester.)					
E	MATH-665	EDMA	Panaretos	Written	2
<b>Malliavin calculus and normal approximations</b> (05.09.-29.10.2024)					
E	MATH-664	EDMA	Nualart	Project report	3
<b>Perfectoid spaces</b> (Fall 2024)					
E	MATH-662	EDMA	Patakfalvi	Oral presentation	3
<b>Quivers and quantum algebras</b> (Spring 2025)					
E	MATH-667	EDMA	Negut	Project report	2
<b>Statistical consulting and collaborations</b> (Postponed until further notice)					
E	MATH-663	EDMA	Mhalla Schütz	Written	1
<b>The theta correspondence</b> (After several weeks of introductory lectures by the PI the participants are expected to give presentations of some specific aspects of the course.)					
E	MATH-670	EDMA	Michel	Oral presentation	3
<b>Topics in dispersive PDE</b> (Postponed until further notice)					
E	MATH-659	EDMA	Krieger	Oral presentation	2
<b>Topics on the Euler and Navier-Stokes equations</b> (Postponed until further notice)					
E	MATH-647	EDMA	Colombo	Oral presentation	2
<b>Working group in Topology I</b> (Fall 2024)					
E	MATH-726	EDMA	Hess Bellwald	Oral presentation	2
<b>Working group in Topology II</b> (Spring semester)					
E	MATH-726(2)	EDMA	Hess Bellwald	Oral presentation	2
<b>Other doctoral courses (EDOC)</b>					
Courses				Exam	Credit
Language Code	Section	Teacher			
<b>Big Data and Machine Learning for Financial Economics</b> (If you would like to attend this course, please send an email to: <a href="mailto:edfi@epfl.ch">edfi@epfl.ch</a> to register)					
E	FIN-622	EDFI	Malamud	Written	3