

Studies Plan

EDME - Mechanics 2023-24

Core courses

Courses				Exam	Credit
Language Code	Section	Teacher			
Experimental Geomechanics (Next time : Fall 2023)					
E	ME-705	EDME	Ferrari	Oral presentation	1
Fundamentals of Fracture with Fundamental Papers (Next time: Fall 2025)					
E	ME-629	EDME	Garagash Kolinski Lecampion Molinari	Written & Oral	2
Introduction to earthquake source physics (Next time TBD)					
E	ME-615	EDME	Lecampion Momeni	Project report	2
Selected topics in poromechanics (First part Fundamentals of poromechanics -> over 5 days (3 hours lecture / day) Sept 4 to 8, 2023 Second part Fundamentals of fluid-driven fractures -> over the semester 1 hour lecture / week)					
E	ME-630	EDME	Lecampion	Oral	2
Similarity and Transport Phenomena in Fluid (Next time: Fall 2024)					
E	ME-716	EDME	Ancey	Project report	2

Other doctoral courses (EDOC)

Courses				Exam	Credit
Language Code	Section	Teacher			
Design of experiments (a) - Fall semester (Next time : Fall 2023)					
E	ENG-606(a)	EDRS	Fuerbringer	Project report	4
Engineering of musculoskeletal system and rehabilitation (Next time Fall 2024)					
E	BIO-687	EDBB	Antoniadis Crevoisier Favre Goetti Martin Pioletti Terrier	Multiple	3
Scientific programming for Engineers (Next time: Fall 2023)					
E	MATH-611	EDCE	Anciaux	Project report	4

External courses

Courses				Exam	Credit
Language Code	Section	Teacher			
Mechanics of earthquakes and aseismic slip (Registration via website: earthssepfl.ethz.ch. July 18th - 21st 2022)					
E	ME-801	EDME	Lecampion	Project report	1
Towards a continuum of robot-assisted therapy (registration via tcrt.epfl.ch)					
E	ENG-806	EDRS	Micera	Oral presentation	1

Master courses

Courses				Exam	Credit
Language Code	Section	Teacher			
Advanced solid mechanics (pas donné en 2023-24)					
E	ME-437	GM		During the semester	5

Computational geomechanics

E	CIVIL-423	GC	Lecampion	During the semester	5
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Continuum mechanics and applications

E	CIVIL-425	GC	Lecampion Molinari	Oral	6
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Energy geostructures

E	CIVIL-444	GC	Laloui	During the semester	4
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Experimental methods in engineering mechanics

E	ME-412	GM	Kolinski	During the semester	4
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Geomechanics

E	CIVIL-402	GC	Koliji Laloui	Written	4
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Hydraulic turbomachines

E	ME-453	GM	Vagnoni	Written	4
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Hydrological risks and structures

F	ENV-524	SIE	Ancey	During the semester	3
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Indoor air quality and ventilation

E	CIVIL-460	GC	Licina	During the semester	4
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Instability

E	ME-466	GM	Gallaire	Written	3
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Mechanics of slender structures

E	ME-411	GM	Nunes Pereira de Almeida Reis	Written	5
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Selected topics in mechanics of solids and structures

(Pas donné en 2023-24 - Cours biennal donné une année sur deux)

E	CIVIL-527	GC		Oral	3
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Slope stability

E	CIVIL-530	GC	Ferrari	Written	3
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Turbulence

E	ME-467	GM	Schneider	During the semester	5
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