

## Studies Plan

### Mineur : Energie 2025-26

Minor : Energy

Courses				Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher			
<b>Advanced energetics</b>						
E	ME-451	GM	Florez Orrego Maréchal	Win	Oral	5
<b>Air pollution</b>						
E	ENV-409	SIE	Reimann Bhend Takahama	Sum	Written	5
<b>Dam engineering</b>						
E	CIVIL-411	GC	De Cesare Manso	Win	Oral	3
<b>Energy and comfort in buildings</b>						
E	CIVIL-407	GC	Favero Khovalyg Licina Sonta	Win	During the semester	5
<b>Energy conversion and renewable energy</b>						
E	ME-409	GM	Maréchal Nguyen	Win	Written	4
<b>Energy geostructures</b>						
E	CIVIL-444	GC		Sum	Written	4
<b>Energy storage in power systems: technologies, applications and future needs</b>						
E	EE-466	EL	Sossan	Win	Written	3
<b>Engines and fuel cells</b>						
E	ME-551	GM	Van Herle	Win	Written	4
<b>Fundamentals &amp; processes for photovoltaic devices</b>						
E	MICRO-565	MT	Ballif	Sum	Written	3
<b>Fundamentals of separation processes</b>						
E	ChE-310	CGC	Agrawal	Sum	Written	4
<b>Heterogeneous reaction engineering</b>						
E	ChE-403	CGC	Luterbacher	Win	Written	4
<b>Hydraulic turbomachines</b>						
E	ME-453	GM	Vagnoni	Win	Written	4
<b>Industrial electronics I</b>						
E	EE-465	EL	Dujic	Win	Oral	4
<b>Industrial electronics II</b>						
E	EE-565	EL	Dujic	Sum	Oral	4
<b>Introduction to nuclear engineering</b>						
E	ME-464	GM	Scolaro	Sum	Written	2
<b>Life cycle assessment in energy systems</b>						
E	ENV-510	EL	Margni	Win	During the semester	3
<b>Modelling and optimization of energy systems</b>						
E	ME-454	GM	Maréchal	Win	Oral	4
<b>Plasma I</b>						
E	PHYS-423	PH	Theiler	Win	Oral	6
<b>Plasma II</b>						
E	PHYS-424	PH	Reimerdes	Sum	Oral	6

<b>Process development</b>						
E	ChE-459	CGC	Gouveia Braz Maréchal Ribeiro Domingos	Sum	Oral	8
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<b>Project in Energy</b>						
	ME-450	GM	Profs divers	Sum Win	During the semester	10
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<b>Smart grids technologies</b>						
E	EE-472	EL	Paolone	Sum	Written	5
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<b>Solid waste engineering</b>						
E	ENV-500	SIE	Ludwig	Win	During the semester	4
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<b>Sustainability assessment of urban systems</b>						
E	ENV-461	SIE	Binder	Sum	Written	3
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