

## Plan d'études

### Mineur : Energie 2023-24

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Cours		Sections	Enseignants	Session Examen	Examen	Crédits
lang. ens.	Code					
<b>Advanced energetics</b>						
E	ME-451	GM	Maréchal	Hiv	Oral	5
<b>Air pollution</b>						
E	ENV-409	SIE	Reimann Bhend Takahama	Eté	Ecrit	5
<b>Dam engineering</b>						
E	CIVIL-411	GC	Manso Mouvet	Hiv	Oral	3
<b>Electrochemical engineering</b>						
E	ChE-407	CGC	Boghossian	Hiv	Ecrit	3
<b>Energy and comfort in buildings</b>						
E	ENG-445	GC	Licina Sonta	Hiv	Pendant le 4 semestre	4
<b>Energy conversion and renewable energy</b>						
E	ME-409	GM	Maréchal Nguyen	Hiv	Ecrit	4
<b>Energy geostructures</b>						
E	CIVIL-444	GC	Laloui	Eté	Ecrit	4
<b>Energy storage systems</b>						
E	EE-466	EL	Torregrossa	Hiv	Ecrit	3
<b>Engineering geology for geo-energy</b>						
E	CIVIL-428	GC	Nussbaum	Eté	Pendant le 3 semestre	3
<b>Engines and fuel cells</b>						
E	ME-551	GM	Van Herle	Hiv	Ecrit	4
<b>Fundamentals &amp; processes for photovoltaic devices</b>						
E	MICRO-565	MT	Ballif	Eté	Ecrit	3
<b>Fundamentals of separation processes</b>						
E	ChE-310	CGC	Agrawal	Eté	Ecrit	4
<b>Heterogeneous reaction engineering</b>						
E	ChE-403	CGC	Renken	Hiv	Ecrit	4
<b>Hydraulic turbomachines</b>						
E	ME-453	GM	Vagnoni	Hiv	Ecrit	4
<b>Industrial electronics I</b>						
E	EE-465	EL	Dujic	Hiv	Oral	4
<b>Industrial electronics II</b>						
E	EE-565	EL	Dujic	Eté	Oral	4
<b>Introduction to nuclear engineering</b>						
E	ME-464	GM	Scolaro	Eté	Oral	2
<b>Life cycle assessment in energy systems</b>						
E	ENV-510	EL	Margni	Hiv	Ecrit	3
<b>Modelling and optimization of energy systems</b>						
E	ME-454	GM	Maréchal	Hiv	Oral	4
<b>Plasma I</b>						
E	PHYS-423	PH	Theiler	Hiv	Oral	6
<b>Plasma II</b>						
E	PHYS-424	PH	Reimerdes	Eté	Oral	6
<b>Power systems dynamics</b>						
E	EE-470	EL	Cherkaoui	Eté	Pendant le 3 semestre	3
<b>Principles of power systems</b>						
E	EE-473	EL	Paolone	Eté	Ecrit	2
<b>Process development</b>						
E	ChE-459	CGC	Gouveia Braz Maréchal	Eté	Pendant le 8 semestre	8
<b>Projet en énergie</b>						
	ME-450	GM	Profs divers	Eté Hiv	Pendant le 10 semestre	10

<i>E</i>	<b>Smart grids technologies</b> <i>EE-472</i>	<i>EL</i>	<i>Paolone</i>	<i>Eté</i>	<i>Ecrit</i>	<i>5</i>
<i>E</i>	<b>Solid waste engineering</b> <i>ENV-500</i>	<i>SIE</i>	<i>Ludwig</i>	<i>Hiv</i>	<i>Pendant le</i>	<i>4 semestre</i>
<i>E</i>	<b>Sustainability assessment of urban systems</b> <i>ENV-461</i>	<i>SIE</i>	<i>Duygan</i> <i>Wall</i> <i>Gago</i>	<i>Eté</i>	<i>Pendant le</i>	<i>3 semestre</i>
<i>E</i>	<b>Thermal power cycles and heat pump systems</b> <i>ME-459</i>	<i>GM</i>	<i>Schiffmann</i> <i>Van</i> <i>Herle</i>	<i>Eté</i>	<i>Ecrit</i>	<i>3</i>