UCLouvain

UCL Study programme 2025 - 2026

Mineure Polytechnique

The version you're consulting is not definitive. This programme still may change. The final version will be published on 1th June.

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Introduction

MINPOLY - Teaching profile

Learning outcomes

On successful completion of this programme, each student is able to :

Programme

DETAILED PROGRAMME BY SUBJECT

- Mandatory
- Optional
- Not offered in 2025-2026
- Not offered in 2025-2026 but offered the following year
- Offered in 2025-2026 but not the following year
- Not offered in 2025-2026 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content

L'étudiant·e sélectionne 30 crédits parmi les cours suivants, conformément aux conditions d'accès.

				Year 2	Year 3
Chimie et physique appliquées					
LMAPR1805	Introduction to materials science		[FR] [q2] [30h+30h] [5 Credits]	x	
LMAPR1230	Organic chemistry		[FR] [q1] [30h+30h] [5 Credits]		x
LMAPR1400	Kinetics and thermodynamics	Juray De Wilde Denis Mignon	[FR] [q2] [30h+30h] [5 Credits]		x
LMAPR1491	Statistical & quantum physics		[FR] [q1] [30h+30h] [5 Credits]		x
LMAPR1492	Materials physics		[FR] [q2] [37.5h+22.5h] [5 Credits]		x
LFYKI1101	Chimie et physique appliquées – aspects technologiques [C]		[FR] [q2] [22.5h+30h] [5 Credits]	x	
LFYKI1102	Physique statistique et physique de l'état solide I [C]		[FR] [q2] [30h+30h] [5 Credits]	x	
Construction					
LGCIV1022	Mechanics of structures	Pierre Latteur	[FR] [q2] [30h+30h] [5 Credits]	x	
LGCIV1023	Structural Analysis	João Saraiva Esteves Pacheco De Alm	[FR] [q1] [30h+30h] [5 Credits]		x
LGCIV1031	Structural Materials and Geomaterials	Hadrien Rattez	[FR] [q2] [30h+30h] [5 Credits]	x	
LGCIV1032	Reinforced concrete structures	Jean-François Cap	[FR] [q2] [30h+30h] [5 Credits]		x
LGCIV1051	Hydraulic	Sandra Soares Frazao	[FR] [q2] [30h+30h] [5 Credits]		x
LGCIV1072	Soil mechanics	Hadrien Rattez	[FR] [q1] [30h+30h] [5 Credits]		x
Electricité					
LELEC1101	Project in Electricity 1 : Electrical circuits		[FR] [q2] [30h+30h] [5 Credits]	x	
LELEC1310	ELECTROMECHANICAL CONVERTERS	Bruno Dehez	[FR] [q2] [30h+30h] [5 Credits]		x
LELEC1360	TELECOMMUNICATIONS	Luc Vandendorpe	[FR] [q2] [30h+30h] [5 Credits]		x

				Year 2	3
⊠ LELEC1370	Measurements and electrical circuits		FR [q2] [30h+30h] [5 Credits]	x	
⊠ LELEC1530	Basic analog and digital electronic circuits	Martin Andraud Denis Flandre	FR [q1] [30h+30h] [5 Credits]		x
⊠ LELEC1755	Physics of electronic devices and transmission lines		FR [q1] [30h+30h] [5 Credits]		x

⊠ Génie biomédical

⊠ LGBIO1111	Cell biology and physiology	Charles De Smet Laurent Jacques Pascal Kienlen-Campard	FR [q2] [30h+15h] [5 Credits]	x	
⊠ LGBIO1112	Introduction to biomedical engineering	Philippe Lefèvre	FR [q2] [45h] [5 Credits]	x	
⊠ LGBIO1113	Systems Anatomy and Physiology	Catherine Behets Wydemans Olivier Cornu Greet Kerckhofs	FR [q2] [30h+15h] [5 Credits]		x
⊠ LGBIO1115	Introduction to Neuroscience	Julie Duque (coord.) Aleksandar Jankovski Marcus Missal Sylvie Nozaradan	FR [q2] [30h+30h] [5 Credits]		x
⊠ LBIR1250	Biochemistry I	Michel Ghislain	FR [q1] [30h+15h] [5 Credits]		x
⊠ LINMA1510	Linear Control	Gianluca Bianchin	EN [q1] [30h+30h] [5 Credits] *> French-friendly*		x

⊠ Informatique

⊠ LINFO1104	Programming language concepts	Peter Van Roy	FR [q2] [30h+30h] [5 Credits]	x	
⊠ LINFO1121	Algorithms and data structures		FR [q1] [30h+30h] [5 Credits]		x
⊠ LINFO1123	Calculability and Complexity [M]		FR [q2] [30h+30h] [5 Credits]	x	
⊠ LINFO1252	Informatic Systems		EN [q1] [30h+30h] [5 Credits]		x
⊠ LINFO1341	Computer networks		FR [q2] [30h+30h] [5 Credits]		x
⊠ LINFO1361	Artificial intelligence	Yves Deville	FR [q2] [30h+30h] [5 Credits]		x

⊠ Mathématiques appliquées

⊠ LINMA1170	Numerical analysis	Jean-François Remacle	FR [q2] [30h+22.5h] [5 Credits]		x
⊠ LINMA1315	Mathematical analysis : complements	Pierre-Antoine Absil Jean Van Schaftingen	FR [q2] [30h+22.5h] [5 Credits]	x	
⊠ LINMA1510	Linear Control	Gianluca Bianchin	EN [q1] [30h+30h] [5 Credits] *> French-friendly*		x
⊠ LINMA1691	Discrete mathematics - Graph theory and algorithms	Vincent Blondel Jean-Charles Delvenne	FR [q1] [30h+22.5h] [5 Credits]		x
⊠ LINMA1702	Optimization models and methods I		FR [q2] [30h+22.5h] [5 Credits]	x	
⊠ LINMA1731	Stochastic processes : Estimation and prediction	Gianluca Bianchin Luc Vandendorpe	EN [q2] [30h+30h] [5 Credits] *> French-friendly*		x

⊠ Mécanique

⊠ LMECA1100	Deformable solid mechanics.	Issam Doghri	FR [q1] [30h+30h] [5 Credits]		x
⊠ LMECA1210	Description and analysis of mechanisms	Francesco Contino Paul Fisette Benoît Raucent	FR [q2] [30h+30h] [5 Credits]	x	
⊠ LMECA1321	Fluid mechanics and transfer phenomena.	Vincent Legat Grégoire Winckelmans	EN [q1] [30h+30h] [5 Credits]		x
⊠ LMECA1451	Mechanical manufacturing.	Laurent Delannay Aude Simar	FR [q2] [30h+30h] [5 Credits]		x
⊠ LMECA1855	Thermodynamics and energetics.	Yann Bartosiewicz Miltiadis Papalexandris	FR [q2] [30h+30h] [5 Credits]		x
⊠ LMECA1901	Continuum mechanics.	Philippe Chatelain Issam Doghri	FR [q2] [30h+30h] [5 Credits]	x	

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a reference framework of learning outcomes specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

MINPOLY - Information

Evaluation

The evaluation methods comply with the regulations concerning studies and exams. More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Contacts

Curriculum Management

Faculty

Structure entity	SST/EPL
Denomination	Louvain School of Engineering (EPL)
Sector	Sciences and Technology (SST)
Acronym	EPL
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Website	http://www.uclouvain.be/epl

Mandate(s)

- Dean : Olivier Bonaventure
- Administrative director : Julie Claus

Commission(s) of programme

- Commission de programme - Tronc commun bachelier ingénieur civil (BTCI)
- Commission de programme en science des données, cryptographie et sécurité (DACS)
- Commission de programme - Ingénieur civil électricien (ELEC)
- Commission de programme - Ingénieur civil électromécanicien (ELME)
- Commission de programme - Ingénieur civil en chimie et sciences des matériaux et ingénieur civil physicien (FYKI)
- Commission de programme- Ingénieur civil biomédical (GBIO)
- Commission de programme - Ingénieur civil des constructions (GC)
- Commission de programme - Ingénieur civil en informatique (INFO)
- Commission de programme - Ingénieur civil en mathématiques appliquées (MAP)
- Commission de programme - Ingénieur civil mécanicien (MECA)
- Commission de programme du bachelier en sciences informatiques à Charleroi (SINC)
- Commission de programme ' Bachelier et masters en sciences informatiques (SINF)

Academic supervisor: Jean-Charles Delvenne