UNIVERSITY OF LIÈGE

LIÈGE université Sciences Appliquées

2018-2019 / BACHELOR (1ST CYCLE)

Engineering

180 CRÉDITS

Horaire de jour

French, English

180 credits

COURSES STRUCTURE | BLOCK VIEW | CYCLE VIEW

Block view

OrganisationThéoriePratiqueAutresCrédits

Block 1

In order to be awarded a Bachelors in Civil Engineering, students must have acquired or accredited the 115 compulsory course credits and 65 optional course credits, including at least 30 in an initial field (degree option) and at least 15 in a second field.

Compulsory courses

CHIM9272-2	*Chemistry 1 - [4h Laboratory work]* Benoît Heinrichs	Q1	25	20	[+]	4
CHIM9273-1	*Chemistry 2*	Q2				5
	Part A - [8h Laboratory work] Benoît Heinrichs		15	10	[+]	
	Part B - [4h Laboratory work] Benoît Heinrichs		10	10	[+]	
	Corequisite					
ECON0323-1	*First principles of economics* Henry-Jean Gathon	Q1	30	-	-	3
INFO2009-2	*Introduction to computer science - [8h Laboratory work]* Bernard Boigelot	Q1	24	14	[+]	4
INFO0061-4	*Computers organization, Part A* Bernard Boigelot	Q2	15	15	-	3
LANG0038-2	*Anglais - [5h Projet]* Christine Filot	TA	13	39	[+]	5
MATH0001-2	*Graphic Communication* Eric Béchet	Q1	20	20	-	3

MATH0002-4 UNIVERSITY OF LIÈGE	*Mathematical analysis 1* Eric Delhez	Q1	22	22	-		4
MATH0502-1	*Mathematical Analysis 2* Eric Delhez Corequisite	Q2	26	26	-		6
MATH0013-1	*Algebra* Eric Delhez	Q1	26	26	-		5
PHYS2020-1	*Physics 1 : Mechanics, Part A* Hervé Caps	Q1	20	20	-		4
PHYS2021-1	*Physics 2 : Electricity and electromagnetism* Hervé Caps Corequisite	Q2	30	30	-		5
PROJ0001-1	*Introduction to numerical methods and project - [2h Laboratory work, 28h Projet]* Olivier Bruls, Quentin Louveaux, Frédéric Nguyen Corequisite	Q2	10	-	[+]		3
INGE0009-1	*Introduction to Engineer's Careers - [1d Field work]* Luc Courard, Eric Delhez, Damien Ernst, Benoît Heinrichs	TA	10	-	[+]		1
MATH2032-1	*Introduction to discrete mathematics* Michel Rigo	Q2	14	10	-		2
GENV0001-2	*Environmental engineering* Alain Dassargues, Benjamin Dewals, Angélique Léonard	Q2	30	-	-		3

Block 2

Compulsory courses

CHIM0286-1	*Rudiments of thermodynamics* Benoît Heinrichs Corequisite	Q1	26	26	-		5
LANG0039-3	*English 2 (english language)*	TA					3
	English for Engineering - [20h Projet] Christine Filot, ISLV		-	30	[+]		
	Company visit - [1d Field work] Christine Filot Prerequisite		-	-	[+]		
MATH0006-3	*Introduction to numerical analysis (english language)* Quentin Louveaux Corequisite	Q1	20	20	-		4
MECA0001-2	*Mechanics of materials - [2h Laboratory work, 12h Projet]* Jean-Pierre Jaspart Prerequisite	Q1	27	25	[+]		5
MECA0003-2	*Rational Mechanics* Eric Delhez Corequisite Prerequisite	Q1	20	30	-		4
MECA0011-2	*Fluid Mechanics : Basics - [25h Projet]* Michel Pirotton Corequisite	Q2	20	30	[+]		4
PHYS2022-2	*Physics 3 : Waves and quanta* Geoffroy Lumay Corequisite	Q2	20	10	-		3
MATH0062-1	*Elements of probability calculus - [25h Projet]* Louis Wehenkel - Suppl : Adrien Deliège Corequisite	Q2	15	10	[+]		3
INFO0952-1	*Additional information technology - [30h Autres]* Pierre Geurts	Q1	16	16	[+]		4
SYST0002-2	*Introduction to signals and systems - [15h Projet]* Guillaume Drion	Q1	26	26	[+]		5

Optional courses

3. Your option will be determined by your student affairs office according to the courses you select below.

emistry and Material Sciences

chanics

ysics

ctricity and electronics

mputer science

nstructions

oresources and environmental geology

medical Engineering

oose courses totalling 20 credits out of the following :

Notice : together 30 credits followed in a given field constitutes an option mentioned as such in the annex of the Bachelor degree.

emistry and Material Sciences

CHIM9306-1	*Introduction to chemical engineering and industrial processes - [20h Projet]* Marie-Noëlle Dumont, Nathalie Job, Dominique Toye Corequisite	Q2	24 24 [+] 5
CHIM0604-2	*Chemistry and organic materials* Lionel Delaude Corequisite	Q2	33 19 - 5

chanics

MECA0445-2	*Heat transfer (english language) - [4h Laboratory work, 9h Projet]* Pierre Dewallef, Vincent Terrapon Corequisite	Q2	28 24 [+] 5
MECA0012-6	*Solid mechanics - [15h Projet]* Laurent Duchene Corequisite	Q2	26 26 [+] 5

ysics

PHYS2026-2 *Physics 4 : Microscopic physics (part a : waves optics, part b : introduction to nuclear physics) - [15h Laboratory work]*
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Ngoc Duy Nguyen
Corequisite
Q2 30 15 [+] 5

MECA0445-2 *Heat transfer (english language) - [4h Laboratory work, 9h Projet]*
Pierre Dewallef, Vincent Terrapon
Corequisite Prerequisite
Q2 28 24 [+] 5

ctricity and electronics

ELEC0053-2 *Electric circuits*
Bertrand Cornélusse
Corequisite
Q2 26 26 - 5

ELEN0040-1 *Digital Electronics*
Jean-Michel Redouté
Q2 26 26 - 5

mputer science

INFO0902-1 *Data structures and algorithms - [40h Projet]*
Pierre Geurts
Corequisite
Q2 26 20 [+] 5

INFO0062-1 *Object-oriented programming (english language) - [20h Projet]*
Bernard Boigelot
Corequisite
Q2 25 20 [+] 5

nstructions

GCIV0184-5 *Building Materials - [0,5d Field work, 12h Laboratory work, 12h Projet]*
Luc Courard
Corequisite
Q2 36 16 [+] 5

MECA0012-6 *Solid mechanics - [15h Projet]*
Laurent Duchene
Corequisite
Q2 26 26 [+] 5

oresources and environmental geology

GEOL0001-1 *Geology and Engineering geology - [2d Field work]*
Alain Dassargues
Q2 30 22 [+] 5

GEOL0021-7 *Geophysical prospecting - [5d Field work, 20h Projet]*
Lucien Halleux, Frédéric Nguyen
Corequisite
Q2 26 20 [+] 5

medical Engineering

GBIO0025-1 *General and cell biology*
Olivier Peulen
Corequisite
Q2 26 26 - 5

GBIO0026-1 *Systems physiology*
Philippe Kolh
Corequisite
Q2 26 26 - 5

chitecture

ARCH0221-1 *Elements of history of architecture from Antiquity until the 19th century*
Claudine Houbart
Q1 48 - - 5

GCIV2030-2 *Structural Design of Buildings - [40h Projet]*
Jean-Marc Franssen
Corequisite
Q2 15 30 [+] 5

t of cross-cutting optional classes

Block 3

Compulsory courses

DROI0724-1	*Law and engineering* Roman Aydogdu, Christine Biquet, Jacques Clesse, Vanessa Franssen, Pascale Lecocq, Bernard Vanbrabant, Cécile Vercheval	Q1	26	-	-	2
GENV0002-1	*Sustainable energy - [20h Projet]* Pierre Dewallef, Damien Ernst, Nathalie Job, Sigrid Reiter	Q2	26	8	[+]	3
MATH0487-2	*Elements of statistics - [25h Projet]* Louis Wehenkel Corequisite	Q1	15	10	[+]	3
MATH0488-1	*Elements of stochastic processes - [30h Projet]* Maarten Arnst, Vincent Denoël, Pierre Geurts Corequisite Prerequisite	Q2	10	10	[+]	2
MATH0504-1	*Applied mathematics* Benjamin Dewals, Christophe Geuzaine	Q1	26	26	-	5

Optional courses

3. Your option will be determined by your student affairs office according to the courses you select below.

emistry and Material Sciences

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nstructions

oresources and environmental geology

medical Engineering

oose courses totalling 45 credits from the following :

Notice : together 30 credits followed in a given field constitutes an option mentioned as such in the annex of the Bachelor degree.

emistry and Material Sciences

CHIM0009-3	*Applied Chemical Thermodynamics* Nathalie Job, Grégoire Léonard Prerequisite	Q1	26	26	-	5

CHIM9284-3	***Analytical chemistry I - Chemical analysis methods***	Q1					5
	Theory						
	Gauthier Eppe				20	-	-
	Practice - [15h Question and answer session]						
	Gauthier Eppe				-	-	[+]
	Supplement - [11h Question and answer session]						
	Gauthier Eppe				6	-	[+]
	Prerequisite						
CHIM0022-4	***Transport phenomena (english language)***	Q2					5
	Part A						
	Andreas Pfennig				30	-	-
	Part B						
	Andreas Pfennig				-	20	-
	Corequisite Prerequisite						
CHIM0605-2	***Chemistry and inorganic materials***						
	Stéphanie Lambert, Bénédicte Vertruyen	Q2	35	20	-		5
	Corequisite Prerequisite						
PHYS0904-4	***Physics of materials - [1d Field work]***	Q2	26	26	[+]		5
	Anne Mertens						
CHIM9297-1	***Bachelor project (english language) - [120h Projet]***						
	Andreas Pfennig	Q2	-	-	[+]		5
	Corequisite						

chanics

MECA0002-1	***Applied Thermodynamics and Introduction to Heat Engines***						
	Vincent Lemort	Q1	26	26	-		5
	Corequisite Prerequisite						
MECA0155-2	***Dynamics of mechanical systems - [5h Laboratory work, 10h Projet]***						
	Jean-Claude Golinval	Q1	26	26	[+]		5
	Corequisite						
PHYS0904-4	***Physics of materials - [1d Field work]***	Q2	26	26	[+]		5
	Anne Mertens						
MECA0444-1	***Mechanical design and machining - [15h Laboratory work, 11h Projet, 0,5d Field work]***						
	Eric Béchet, Jean-Luc Bozet, Pierre Duysinx, Jean Stuto	Q2	30	-	[+]		5
	Corequisite						
MECA0025-3	***Fluid Mechanics - [30h Projet]***						
	Eric Delhez	Q2	26	26	[+]		5
	Corequisite Prerequisite						
MECA0036-2	***Finite Element Method (english language) - [40h Projet]***						
	Jean-Philippe Ponthot	Q2	26	26	[+]		5
	Corequisite						

ysics

PHYS0211-3	***Quantum mechanics***						
	John Martin	Q1	26	26	-		5
	Corequisite Prerequisite						
ELEN0076-1	***Electromagnetism***						
	Patricia Rousseaux, Benoît Vanderheyden	Q1	26	26	-		5
	Prerequisite						
PHYS0055-1	***Introduction to condensed matter physics***						
	Matthieu Verstraete - Suppl : Philippe Ghosez	Q2	26	26	-		5
	Corequisite Prerequisite						
MECA0025-3	***Fluid Mechanics - [30h Projet]***						
	Eric Delhez	Q2	26	26	[+]		5
	Corequisite Prerequisite						

MECA0036-2 *Finite Element Method (english language) - [40h Projet]*
UNIVERSITY OF LIÈGE
Jean-Philippe Ponthot
Q2 26 26 [+] 5
Corequisite

SYST0020-1 *Introduction to microsystems and microtechnology (english language) - [4h Laboratory work, 20h Projet]*
Tristan Gilet, Jean-Michel Redouté
Q2 24 18 [+] 5
Corequisite Prerequisite

ctricity and electronics

ELEC0052-2 *Analysis and Design of Electrical Measuring Systems - [24h Laboratory work]*
Philippe Vanderbemden
Q1 30 6 [+] 5
Prerequisite

ELEC0431-2 *Electromagnetic energy conversion (english language) - [15h Laboratory work]*
Christophe Geuzaine
Q2 30 15 [+] 5
Prerequisite

ELEN0076-1 *Electromagnetism*
Patricia Rousseaux, Benoît Vanderheyden
Q1 26 26 - 5
Corequisite

ELEN0071-1 *Applied digital signal processing (english language) - [40h Projet]*
Pierre Sacré
Q2 39 13 [+] 5

ELEN0075-3 *Analog Electronics - [16h Laboratory work]*
Benoît Vanderheyden
Q2 29 23 [+] 5
Corequisite Prerequisite

ELEN0008-1 *Principles of analog and digital telecommunications systems*
Marc Van Droogenbroeck
Q2 26 26 - 5

mputer science

INFO0012-2 *Computation structures (english language) - [40h Projet]*
Pierre Wolper
Q1 26 26 [+] 5
Prerequisite

INFO0004-2 *Object-oriented programming project - [90h Projet]*
Laurent Mathy
Q2 20 - [+] 5
Prerequisite

INFO0009-2 *Database (general organisation) - [25h Projet]*
Pierre Wolper - Suppl : Samuel Hiard
Q2 26 26 [+] 5
Prerequisite

INFO0054-1 *Functional programming - [15h Projet]*
Pascal Gribomont
Q2 28 24 [+] 5
Prerequisite

INFO0010-4 *Introduction to computer networking (english language)*
Q2 5
Part A - [8h Laboratory work, 40h Projet]
Guy Leduc
30 2 [+]
Part B - [4h Laboratory work]
Guy Leduc
5 - [+]
Corequisite

INFO8006-1 *Introduction to artificial intelligence (english language) - [45h Projet]*
Gilles Louppe
Q1 25 10 [+] 5
Prerequisite

nstructions

GCIV0604-3 *Hydraulic - [1d Field work, 15h Projet]*
Michel Pirotton
Q1 22 30 [+] 5
Corequisite Prerequisite

GCIV0603-2 *Geotechnics and infrastructure - [0,5d Field work, 2h Laboratory work]*
Robert Charlier
Q2 26 26 [+] 5
Corequisite

GCIV0608-1 *Introduction to Structures engineering - [4d Field work, 40h Projet]*
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Jean-François Demonceau, Vincent Denoël, Jean-Marc Franssen
Q1 12 12 [+] 5
Corequisite

GEOL0001-1 *Geology and Engineering geology - [2d Field work]*
Alain Dassargues
Q2 30 22 [+] 5

GCIV2172-1 *Metallic Elements Calculation - [1d Field work, 10h Projet]*
Jean-Pierre Jaspart
Q2 26 26 [+] 5
Corequisite

GCIV2173-1 *Reinforced concrete (english language) - [1d Field work, 10h Projet]*
Boyan Mihaylov
Q2 26 26 [+] 5
Corequisite

oresources and environmental geology

GEOL0020-7 *Mineral resources (english language) - [1d Field work, 26h Laboratory work, 32h Projet]*
Eric Pirard
Q1 26 - [+] 5
Prerequisite

GEOL0013-5 *Hydrogeology* Q1 5
Part A - [1d Field work]
Alain Dassargues
26 20 [+]
Part B - [10h Projet]
Alain Dassargues
- - [+]
Prerequisite

GCIV0603-2 *Geotechnics and infrastructure - [0,5d Field work, 2h Laboratory work]*
Robert Charlier
Q2 26 26 [+] 5
Corequisite

META0431-3 *Mineral processing (processes) - [1d Field work, 26h Laboratory work, 10h Projet]*
Stoyan Gaydardzhiev
Q2 26 - [+] 5
Corequisite

GEOL1026-1 *Complement of geology* Q2 5
Part 1 : Elements of mineralogy
Frédéric Hatert
18 18 -
Part 2 : Elements of magmatic and metamorphic petrology
Jacqueline Vander Auwera
8 8 -
Corequisite Prerequisite

GEOL1032-1 *Geoinformatics and Geocommunication - [20h Laboratory work, 80h Projet]*
Annick Anceau, Serge Brouyère, Eric Pirard
Q2 10 - [+] 5
Corequisite Prerequisite

medical Engineering

GBIO0002-1 *Genetics and bioinformatics (english language) - [15h Projet]*
Franck Dequiedt, Kristel Van Steen
Q1 30 15 [+] 5
Prerequisite

GBIO0011-1 *Biological Systems Modelling*
Pierre Dauby, Liesbet Geris
Q2 26 26 - 5
Corequisite Prerequisite

GBIO0001-1 *Biophysics and Biochemistry - [6h Projet]*
Paulette Charlier, Liesbet Geris
Q1 29 23 [+] 5

GBIO0021-1 *Laboratory Project - [16h Laboratory work, 8h Projet]*
Thomas Desaive, Liesbet Geris
Q2 - 44 [+] 5
Corequisite

GBIO0013-1 *Phenomenon of Transport in Biology*
Dominique Toye
Q2 26 26 - 5
Corequisite

GBIO0005-1 *Introduction to cognitive neurosciences*
Pierre Leprince, Gilles Vandewalle
Q2 26 26 - 5
Corequisite Prerequisite

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hitecture

ARCH3260-2	*Architectural studio II, Introduction - [1d Field work, 85h Projet]* Catherine Elsen - Suppl : John Schrayen Corequisite	TA 20 70 [+] 7
ARCH0003-7	*Building construction techniques I, elements - [2,5d Field work]* Shady Attia	Q1 26 26 [+] 5
ARCH0069-2	*Project management* Shady Attia	Q1 15 42 - 3

t of cross-cutting optional classes

PROJ0011-2	*Personal student project (english language) - [150h Projet]* Georges de Pelsemaeker, Pierre Duysinx, Liesbet Geris, Grégoire Léonard, Quentin Louveaux	TA - - [+] 5
LANG1957-1	*Dutch for Engineers, part 1 (dutch language)* Claudine Colin	Q1 36 - - 3
LANG1958-1	*German for engineer, Part 1 (german language)* Françoise Carl	Q1 36 - - 3
LANG2978-1	*Dutch for engineer, part 2* Claudine Colin	Q2 24 - - 2
LANG2979-1	*German for engineers, part 2* Françoise Carl, ISLV	Q2 24 - - 2

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