

Block 1

Depending on your educational background or depending on the focus, it is possible that the prerequisites / corequisites for the 1st year of the programme are presented in the block 2. You are therefore invited to read through the list of courses in block 2 even if you are registering for the first time in this master.

Core curriculum compulsory courses

ARCH2007-2	<i>Environmental design of buildings in the context of sustainable development</i> - AnneFrançoise MARIQUE, Sigrid REITER - [2d FW, 40h Proj.]	Q1	15	30	[+]	4
Corequisite :						
	ARCH0115-1 - Ateliers d'architecture IV					
Corequisite :						
ARCH0115-1	<i>Architectural studio IV, integrated conception</i> - Catherine ELSEN - [1d FW, 88h Proj.]	Q1	20	130	[+]	10
Corequisite :						
	ARCH2007-2 - Conception architecturale et urbaine durable					
	ARCH0075-3 - S3C : Studio de Conception Computationalle Collaborative					
GCIV0201-2	<i>Concretes and new Materials Technologies</i> - Luc COURARD - [0,5d FW, 6h Labo., 8h Proj.]	Q1	32	20	[+]	5
ARCH3333-1	<i>Existing constructions - Intervention principles</i> - Maurizio COHEN, Claudine HOUBART	Q2	40	-	-	3
ARCH3271-1	<i>Introduction to scientific research</i> - Mario COOLS - [30h Proj.]	Q2	10	10	[+]	2
PHIL0076-1	<i>Aesthetics and contemporary art</i> - Maud HAGELSTEIN	Q2	30	-	-	3
ARCH3283-1	<i>Acoustics and lighting of buildings</i> - <i>Introduction</i> - Arnaud THIENPONT - <i>Methods and applications</i> - Arnaud THIENPONT - [16h Proj.]	Q1	15	14	-	5
15		15	10	[+]		
ARCH2011-1	<i>Sustainable building construction techniques IV : Building renovation</i> - Guirec RUELLAN - [2d FW]	Q2	15	15	[+]	3
GCIV2063-1	<i>Planning buildings, coordination and safety on building sites (english language)</i> - Fabian BOUCHER - [1d FW]	Q1	15	15	[+]	2
ARCH2003-1	<i>Urbanisation dynamics</i> - Jacques TELLER - [65h Proj.]	Q2	26	26	[+]	5
ARCH0075-3	<i>S3C: Collaborative Computational Design Studio</i> - Aurélie DE BOISSIEU - [1d FW, 78h Proj.]	Q2	15	45	[+]	7
Corequisite :						
	ARCH0115-1 - Ateliers d'architecture IV					
ASTG9002-1	<i>Professional internship</i> - Shady ATTIA - [20d FW, 20h Proj.]	TA	-	-	[+]	3
ARCH3336-1	<i>Setting up real-estate operations</i> - Mathurin SMOOS	Q2	32	-	-	3
MECA0512-1	<i>Thermodynamics, machines and thermal systems: applications in the building sector</i> - Vincent LEMORT - [1d FW]	Q2	26	26	[+]	5

Cycle of conferences on the professional competences of the engineer/architect (code of ethics, organising real estate operations, public procurement, etc.): compulsory attendance.

Study trip: guided tours on architectural and urbanistic achievements (optional)

A visit to a business (optional).

Final year trip: at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional).

Block 2

Core curriculum compulsory courses

ARCH0116-3	<i>Architectural studio V: integrated project</i> - Jacques TELLER - [1d FW, 150h Proj.]	Q2	-	100	[+]	10
Corequisite :						

Study programmes 2025-2026

Faculty of Applied Sciences

Master MSc. in Architectural Engineering, professional focus in architectural and urban engineering

ARCH0115-1 - Ateliers d'architecture IV

ATFE0009-1 *Master thesis / project* - COLLÉGIALITÉ, Mario COOLS - [600h Proj.] TA - - - [+]**20**

Cycle of conferences on the professional competences of the engineer/architect (code of ethics, organising real estate operations, public procurement, etc.): compulsory attendance.

Study trip: guided tours on architectural and urbanistic achievements (optional)

A visit to a business (optional).

Final year trip: at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional).

Notice : with the agreement of the President of the jury, students can also choose a course from catalogue UNIC.

Additional courses for Erasmus students

LANG0840-1	<i>French, S1 - 1er quadrimestre</i> - ISLV, Marielle MARÉCHAL	Q1	-	-	-	5
LANG0840-2	<i>French, S2 - 2e quadrimestre</i> - ISLV, Marielle MARÉCHAL	Q2	-	-	-	5
GCIV0008-2	<i>Energy and transport</i> (english language) - Mario COOLS - [25h Proj.]	Q1	30	15	[+]	4

Focus courses

ARCH0065-2	<i>Design Process Analysis</i> - Samia BEN RAJEB, Pierre LECLERCQ - [18h Proj.]	Q2	15	30	[+]	3
GCIV0165-1	<i>Timber constructions</i> (english language) - - Suppl : José Alexandre GOUVEIA HENRIQUES	Q1	15	15	-	3
ARCH3282-1	<i>Urban Transport & Mobility</i> (english language) - Mario COOLS - [30h Proj., 2d FW]	Q1	25	25	[+]	5
ARCH2019-1	<i>Engineering of urban environments</i> - Sigrid REITER - [60h Proj.] Corequisite : ARCH2007-2 - Conception architecturale et urbaine durable	Q1	18	36	[+]	5
ARCH2018-1	<i>Urban and territorial governance</i> - Christophe BREUER, Jacques TELLER	Q1	20	-	-	2
SPOL2209-3	<i>Territorial development and the environment: Policies and legal aspects</i> - Sophie HANSON, Alexandre PIRSON	Q1	30	-	-	2
ARCH3272-1	<i>Building performance simulation and monitoring</i> (english language) - Part 1 - Shady ATTIA - Part 2 - Shady ATTIA - [70h Proj.]	Q1	15	15	-	5
15			15	25	[+]	
GCIV0133-9	<i>Maintenance, repair and renforcement of constructions</i> (english language) - Luc COURARD - [1d FW] Prerequisite : GCIV0201-2 - Technologie des bétons et matériaux nouveaux	Q1	20	20	[+]	3
ARCH3274-1	<i>User-centred approaches to architecture and engineering</i> - Catherine ELSEN - [30h Proj., 1d FW]	Q1	10	10	[+]	2

Bloc d'aménagement du programme de l'année

Bridging courses (aimed at bachelors or students with a degree in engineering - this includes students from Institut Mines Telecom d'Alès, from 'Ecole d'Ingénieurs de La Rochelle, from Polytech Lille, from 'Institut de Technologie du Cambodge and from EPF Troyes, Sceaux, Montpellier)

Notice : this programme is likely to be adjusted according to skills previously acquired by the student.

Optional courses

[...] Choose 1 to 30 credits from among:

Bridging courses (aimed at bachelors or students with a degree in engineering - this includes students from Institut Mines Telecom d'Alès, from 'Ecole d'Ingénieurs de La Rochelle, from Polytech Lille, from 'Institut de Technologie du Cambodge and from EPF Troyes, Sceaux, Montpellier)

Notice : this programme is likely to be adjusted according to skills previously acquired by the student.

Optional courses

[...] Choose 31 to 60 credits from:

Bridging courses Master of science in architecture and engineering (aimed at bachelors in architecture)

Notice : this programme is likely to be adjusted according to skills previously acquired by the student.

Optional courses

[...] Choose 1 to 30 credits from among:

Bridging courses Master of science in architecture and engineering (aimed at bachelors in architecture)

Notice : this programme is likely to be adjusted according to skills previously acquired by the student.

Optional courses

[...] Choose 31 to 60 credits from:

Bridging courses M. sc arch and engineer. (engineering)

ARCH0002-1	<i>Methodology of Architectural Projects I : functional and ergonomical composition</i> - Pierre LECLERCQ - [1d FW, 100h Proj.]	TA	30	60	[+]	8
ARCH3270-1	<i>Architectural studio IA: Graphic composition</i> - Catherine ELSSEN - [1d FW, 35h Proj.]	Q1	10	40	[+]	3
ARCH0066-2	<i>Architectural studio IB: architectural composition</i> - Catherine ELSSEN - [1d FW, 25h Proj.]	Q2	10	40	[+]	4
ARCH0006-2	<i>Methodology of Architectural Projects II : bioclimatic composition</i> - Pierre LECLERCQ - [1d FW, 85h Proj.]	TA	40	50	[+]	8
ARCH0068-7	<i>Urban Analytics, Theory</i> - Jacques TELLER	Q1	15	20	-	2
ARCH0017-4	<i>Digital architectural modeling</i> - Aurélie DE BOISSIEU - [98h Proj.]	Q2	20	70	[+]	6
ARCH2224-1	<i>Architectural culture 2 - history of construction - Antiquity to the 19th century</i> - Philippe SOSNOWSKA	Q2	40	-	-	4
ARCH3260-2	<i>Architectural studio II, Introduction</i> - Catherine ELSSEN - [1d FW, 85h Proj.]	TA	20	70	[+]	7
ARCH3262-1	<i>Architectural studio III A</i> - Shady ATTIA - [1d FW, 55h Proj.]	Q1	10	35	[+]	5
ARCH3263-1	<i>Architectural studio III B</i> - Sigrid REITER - [1d FW, 55h Proj.]	Q2	10	35	[+]	4
GCIV2030-2	<i>Structural Design of Buildings</i> - JeanFrançois DEMONCEAU - [40h Proj.]	Q1	15	30	[+]	4
ARCH3281-1	<i>Summary of construction practices in the building industry</i> -	Q1	7	45	[+]	5

Study programmes 2025-2026

Faculty of Applied Sciences

Master MSc. in Architectural Engineering, professional focus in architectural and urban engineering

ECLERCQ - [1d FW, 30h Proj.]

Bridging courses M of sc arch and engineer. (bac.)

MATH0002-5	<i>Mathematical analysis I</i> - Part 1 - Eric DELHEZ - Part 2 - Patricia TOSSINGS - [26h QA Sess.]	Q1	22	22	-	8
			-	-	[+]	
MATH0066-1	<i>Complement of mathematics 2</i> - Patricia TOSSINGS	Q2	26	26	-	4
ARCH0006-2	<i>Methodology of Architectural Projects II : bioclimatic composition</i> - Pierre LECLERCQ - [1d FW, 85h Proj.]	TA	40	50	[+]	8
MECA0001-2	<i>Mechanics of materials</i> - JeanFrançois DEMONCEAU, Laurent DUCHENE - [2h Labo., 12h Proj.]	Q1	27	25	[+]	5
MECA0012-6	<i>Solid mechanics</i> - Laurent DUCHENE - [15h Proj.]	Q2	26	26	[+]	5
GCIV0184-5	<i>Building Materials</i> - Luc COURARD, Anne HABRAKEN - [0,5d FW, 12h Labo., 12h Proj.]	Q2	36	16	[+]	5
GCIV2172-1	<i>Metallic Elements Calculation</i> - JeanFrançois DEMONCEAU - [1d FW, 10h Proj.]	Q2	26	26	[+]	5
GCIV2173-1	<i>Reinforced concrete</i> (english language) - Boyan MIHAYLOV - [1d FW, 10h Proj.]	Q2	26	26	[+]	5
ARCH0009-3	<i>Sustainable building construction techniques III: networks</i> - Shady ATTIA - [1d FW, 45h Proj.]	Q1	17	35	[+]	5
ARCH3281-1	<i>Summary of construction practices in the building industry</i> - Pierre LECLERCQ - [1d FW, 30h Proj.]	Q1	7	45	[+]	5
GCIV0608-1	<i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Vincent DENOËL - [4d FW, 40h Proj.]	Q1	12	12	[+]	5