

Block view of the study programme

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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.

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					
ARCH0115-1	<i>Architectural studio IV, integrated conception</i> - Pierre LECLERCQ - Suppl : Xaviera CALIXTE - [1d FW, 88h Proj.]	Q1	20	130	[+]	10
	Corequisite : ARCH0075-3 - Studio Digital Collaboratif BIM ARCH2007-2 - Conception architecturale et urbaine durable					
GCIV0201-2	<i>Concretes and new Materials Technologies</i> - Luc COURARD - [0,5d FW, 6h Labo., 8h Proj.]	Q1	32	20	[+]	5
ARCH0027-2	<i>Conservation and Restoration of Cultural Built Heritage</i> - Pierre PAQUET - [1d FW]	Q1	30	-	[+]	3
DROI8041-4	<i>Property law, Notions de droit immobilier</i> - Pascale LECOCQ	Q2	15	-	-	2
ARCH3271-1	<i>Introduction to scientific research</i> - Mario COOLS, Pierre LECLERCQ - Suppl : Xaviera CALIXTE - [30h Proj.]	Q2	10	10	[+]	2
ARCH2009-1	<i>General aesthetics and its application to architecture</i> - Rudy STEINMETZ	Q2	45	15	-	4
ARCH3283-1	<i>Acoustics and lighting of buildings</i> - <i>Introduction</i> - Arnaud THIENPONT - <i>Methods and applications</i> - Arnaud THIENPONT - [16h Proj.]	Q2				5
			15	14	-	
			15	10	[+]	
ARCH0080-1	<i>Building physics and air conditioning</i> - Philippe ANDRE	Q2	30	30	-	5
ARCH2011-1	<i>Sustainable building construction techniques IV : Building renovation</i> - Michel PRÉGARDIEN - [2d FW]	Q2	15	15	[+]	4
	Corequisite : ARCH0027-2 - Conservation et restauration du patrimoine culturel immobilier					
GCIV2063-1	<i>Planning buildings, co-ordination and safety on building sites</i> - Fabian BOUCHER - [1d FW]	Q1	15	15	[+]	2
ARCH2003-1	<i>Urbanisation dynamics</i> - Jacques TELLER - [65h Proj.]	Q1	26	26	[+]	5
ARCH0075-3	<i>Studio Digital Collaboratif BIM</i> - Aurélie DE BOISSIEU, Pierre LECLERCQ - [1d FW, 78h Proj.]	Q2	15	45	[+]	6
	Corequisite : ARCH0115-1 - Ateliers d'architecture IV					
ASTG9002-1	<i>Professional internship</i> - Shady ATTIA - [20d FW, 20h Proj.]	TA	-	-	[+]	3

Notice : Cycle of conferences on the professional competences of the engineer/architect (code of ethics, organising real estate operations, public procurement, etc.): compulsory attendance (Block 1)

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

Block 2

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.

Compulsory courses

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

Prerequisite :

ARCH0115-1 - Ateliers d'architecture IV

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

Notice : Cycle of conferences on the professional competences of the engineer/architect (code of ethics, organising real estate operations, public procurement, etc.): compulsory attendance (Block 2)

Optional courses

Choose one focus from the following :

Professional focus in architectural and urban engineering

ARCH0065-2	<i>Design Process Analysis</i> - Samia BEN RAJEB, Pierre LECLERCQ - [18h Proj.]	Q2	15	30	[+]	3
GCIV0165-1	<i>Timber constructions, Part A</i> (english language) - JeanMarc FRANSSSEN	Q1	20	10	-	2
GCIV2179-1	<i>Transportation planning and modelling</i> (english language) - Mario COOLS - [30h Proj.]	Q1	15	15	[+]	3
ARCH2019-1	<i>Engineering of urban environments</i> - Sigrid REITER - [60h Proj.]	Q1	18	36	[+]	5
	Prerequisite : ARCH2007-2 - Conception architecturale et urbaine durable					
ARCH2018-1	<i>Urban and territorial governance</i> - Christophe BREUER, Jacques TELLER	Q1	20	-	-	2
ARCH3274-1	<i>User-centred approaches to architecture and engineering</i> - Catherine ELSEN - [30h Proj., 1d FW]	Q2	10	10	[+]	2
SPOL2209-3	<i>Environmental and land policies</i> - Sophie HANSON	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				5
	Prerequisite : ARCH0080-1 - Physique du bâtiment et climatisation					
GCIV0133-9	<i>Maintenance, repair and reinforcement of constructions</i> (english language) - Luc COURARD - [1d FW]	Q1	20	20	[+]	3
	Prerequisite : GCIV0201-2 - Technologie des bétons et matériaux nouveaux					
ASTG9002-1	<i>Professional internship</i> - Shady ATTIA - [20d FW, 20h Proj.]	TA	-	-	[+]	3

A visit to a business (optional).

Annual study trip : guided tours on architectural and urbanistic achievements (optional).

Final year trip: at the beginning of the academic year, prior to course organisation, guided tours of architectural and urbanistic achievements (optional).

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

Professional focus in "urban and environmental engineering"

UEEN0001-1	<i>Water and energy in urban environment</i> (english language) - Pierre DEWALLEF, Benjamin DEWALS - [2d FW]	Q1	26	26	[+]	5
UEEN0002-1	<i>Land rehabilitation in urban environments</i> (english language) - Serge BROUYÈRE, Frédéric COLLIN - [10h Labo., 20h Proj., 2d FW]	Q1	20	10	[+]	5
UEEN0003-1	<i>Urban resilience</i> (english language) - Youssef DIAB - [60h Proj., 1d FW]	Q1	36	16	[+]	5
UEEN0004-1	<i>Urban planning and transportation</i> (english language) - Mario COOLS, Jacques TELLER - [1d FW]	Q1	26	26	[+]	5
UEEN0005-1	<i>Urban sociology and co-design</i> (english language) - Stéphane DAWANS, Catherine ELSEN, Clémentine SCHELINGS - [20h Proj., 1d FW]	Q1	20	10	[+]	2

UEEN0006-1	<i>UEE Integrated Project</i> (english language) - Luc COURARD, Frédéric NGUYEN, Jacques TELLER - [100h Proj., 1d FW]	Q1	-	90	[+]	5
GEOG2053-1	<i>Introduction to Urban GIS</i> (english language) - Roland BILLEN	Q1	12	20	-	3

Optional courses

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).

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>Design techniques and development of integrated and sustainable projects in transport and mobility</i> (english language) - Mario COOLS - [25h Proj.]	Q1	30	15	[+]	4

Bloc d'aménagement du programme de l'année

Additional credits, Master of Science (MSc) in Architectural Engineering (aimed at Bachelors and qualified engineers - in particular students from the "Institut Mines Telecom d'Alès", from the "Ecole d'Ingénieurs de La Rochelle, de Polytech Lille", from the "Institut de Technologie du Cambodge" and from the "EPF Troyes, Sceaux, Montpellier").

Compulsory courses

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

ARCH0002-1	<i>Methodology of Architectural Projects I : functional and ergonomical composition</i> - Catherine ELSÉN, Pierre LECLERCQ - [1d FW, 100h Proj.]	TA	30	60	[+]	8
ARCH3270-1	<i>Architectural studio IA : Graphic Composition</i> - Catherine ELSÉN - [1d FW, 35h Proj.]	Q1	10	30	[+]	3
ARCH0066-2	<i>Architectural studio IB: architectural composition</i> - Catherine ELSÉN - [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 planning and site analysis, Theory</i> - Jacques TELLER	Q1	15	20	-	2
ARCH0017-4	<i>Digital architectural modeling</i> - Aurélie DE BOISSIEU, Pierre LECLERCQ - [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 ELSÉN - [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> - JeanMarc FRANSSÉN - [40h Proj.]	Q2	15	30	[+]	4
ARCH3281-1	<i>Summary of construction practices in the building industry</i> - Pierre LECLERCQ - Suppl : Didier MANS - [1d FW, 30h Proj.]	Q1	7	45	[+]	5

Additional ECTS Master of science in architecture and engineering (aimed at bachelors in architecture)

Compulsory courses

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

MATH7371-1	<i>Mathematics supplements 1</i> - Patricia TOSSINGS	Q1	18	34	-	5
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> - JeanPierre JASPART - [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> - JeanPierre JASPART - [1d FW, 10h Proj.]	Q2	26	26	[+]	5
GCIV2173-1	<i>Reinforced concrete (english language)</i> - Boyan MIHAYLOV - [1d FW, 10h Proj.]	Q2	26	26	[+]	5
ARCH0017-4	<i>Digital architectural modeling</i> - Aurélie DE BOISSIEU, Pierre LECLERCQ - [98h Proj.]	Q2	20	70	[+]	8
ARCH0079-1	<i>Sustainable building construction techniques II : envelope</i> - Shady ATTIA - [40h Proj.]	Q1	15	30	[+]	5
GCIV0608-1	<i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSSEN - [4d FW, 40h Proj.]	Q1	12	12	[+]	5