

Block view of the study programme

Or Th Pr Au Cr

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 - [1d FW, 150h Proj.]	Q1	20	130	[+]	10
	Corequisite : ARCH0075-3 - Studio Digital Collaboratif 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 - [30h Proj.]	Q2	10	10	[+]	2
ARCH2009-1	<i>General aesthetics and its application to architecture</i> - Rudy STEINMETZ	Q2	45	15	-	4
ELEN0443-2	<i>Acoustics and lighting of buildings</i> - Part A - JeanJacques EMBRECHTS - Part B - JeanJacques EMBRECHTS - [16h Labo.]	Q2	15	14	-	6
			15	10	[+]	
ARCH0080-1	<i>Building physics and air conditioning</i> - Philippe ANDRE	Q2	30	30	-	6
ARCH2011-1	<i>Sustainable building construction techniques IV : Building renovation</i> - JeanMarie HAUGLUSTAINE - [2d FW]	Q2	15	15	[+]	2
	Corequisite : ARCH0027-2 - Conservation et restauration du patrimoine culturel immobilier					
GCIV2063-1	<i>Planning buildings, co-ordination and safety on building sites</i> - Sebastian KREUSCH	Q1	15	15	-	2
ARCH2003-1	<i>Urban morphology and environmental integration</i> - Jacques TELLER - [65h Proj.]	Q2	26	26	[+]	5
ARCH0075-3	<i>Studio Digital Collaboratif</i> - Pierre LECLERCQ - [1d FW, 78h Proj.]	Q2	15	45	[+]	6
	Corequisite : ARCH0115-1 - Ateliers d'architecture IV					
GCIV2052-1	<i>Urban and transport mobility (english language)</i> - Mario COOLS - [2d FW]	Q2	25	25	[+]	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
------------	--	----	---	-----	-----	----

ELLER - [1d FW, 150h Proj.]

Prerequisite :

ARCH0115-1 - Ateliers d'architecture IV

Corequisite :

GCIV2052-1 - Urban and transport mobility

ARCH2017-3 - Conception et aménagement des espaces publics

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> - Pierre LECLERCQ - [18h Proj.]	Q2	15	30	[+]	3
GCIV0165-1	<i>Timber constructions, Part A</i> (english language) - JeanMarc FRANSSSEN	Q1	20	10	-	2
ARCH2017-3	<i>Design and public areas planning</i> - Philippe HANOCQ - [1d FW, 60h Proj.]	Q1	17	35	[+]	5
	Corequisite :					
	GCIV2052-1 - Urban and transport mobility					
	ARCH0116-3 - Ateliers d'architecture V : Projet intégré					
GCIV2179-1	<i>Transportation planning and modelling</i> (english language) - Mario COOLS - [30h Proj.]	Q1	15	15	[+]	3
	Corequisite :					
	GCIV2052-1 - Urban and transport mobility					
ARCH2019-1	<i>Engineering of urban environments</i> - Sigrid REITER - [12h Proj.]	Q1	8	30	[+]	2
	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> - - Suppl : Sophie HANSON	Q1	30	-	-	2
ARCH3272-1	<i>Building performance simulation and monitoring</i> (english language) - Shady ATTIA - [30h Proj.]	Q1	12	20	[+]	3
	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>Urban recycling : land and wastes</i> (english language) -	Q1	20	10	[+]	5

	ROUYÈRE, Luc COURARD - [10h Labo., 20h Proj., 2d FW]					
UEEN0003-1	<i>Resilience and constructions in urban areas</i> (english language) - Vincent DENOËL, Boyan MIHAYLOV - [60h Proj., 1d FW]	Q1	12	12	[+]	5
UEEN0004-1	<i>Urban planning and transportation</i> (english language) - Mario COOLS, Jacques TELLER - [1d FW]	Q1	26	26	[+]	5
ARCH0353-2	<i>Sociology and urban sociology</i> - <i>Theoretical courses</i> - Stéphane DAWANS - <i>Lectures approfondies de textes</i> - [6h Moni. ex.]	Q1				2
			24	-	-	
			-	-	[+]	
UEEN0006-1	<i>UEE project</i> (english language) - Shady ATTIA, Frédéric NGUYEN, Philippe RIGO - [100h Proj., 1d FW]	Q1	-	90	[+]	8

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).

Annual study trip : guided tours on architectural and urbanistic achievements (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 for the Masters of science in architecture and engineering (for Bachelors in Civil Engineering students, particularly students from the Ecole des Mines in Alès and the Ecole d'Ingénieurs in La Rochelle)

Compulsory courses

ARCH0002-1	<i>Methodology of Architectural Projects I : functional and ergonomical composition</i> - Catherine ELSEEN, Pierre LECLERCQ - [1d FW, 100h Proj.]	TA	30	60	[+]	8
ARCH3270-1	<i>Architectural studio IA : Graphic Composition</i> - Catherine ELSEEN - Suppl : Olivier DE WISPELAERE - [1d FW, 35h Proj.]	Q1	10	30	[+]	3
ARCH0066-2	<i>Architectural studio IB: architectural composition</i> - Catherine ELSEEN - [1d FW, 25h Proj.]	Q2	10	40	[+]	4
ARCH3259-1	<i>Sustainable building construction techniques IB - elements - Part B</i> - Shady ATTIA - [1d FW, 30h Proj.]	Q2	12	24	[+]	3
ARCH0009-3	<i>Sustainable building construction techniques III: networks</i> - Shady ATTIA - [1d FW, 45h Proj.]	Q1	17	35	[+]	5
ARCH0006-2	<i>Methodology of Architectural Projects II : bioclimatic composition</i> - Pierre LECLERCQ - [1d FW, 85h Proj.]	TA	40	50	[+]	8
ARCH3276-2	<i>Theory and history, Connaissance de l'architecture XXe siècle</i> - Andre ROUELLE	Q1	44	4	-	4
ARCH0017-4	<i>Digital architectural modeling</i> - Pierre LECLERCQ - [98h Proj.]	Q2	20	70	[+]	6
ARCH3260-2	<i>Architectural studio II, Introduction</i> - Catherine ELSEEN - Suppl : John SCHRAYEN - [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	[+]	4
ARCH3263-1	<i>Architectural studio III B</i> - Sigrid REITER - [1d FW, 55h Proj.]	Q2	10	35	[+]	4

GCIV2030-2 *Structural Design of Buildings* - JeanMarc FRANSSSEN - [40h Proj.] Q2 15 30 [+] 4

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

Compulsory courses

MATH0066-1	<i>Complement of mathematics</i> - Patricia TOSSINGS	Q2	26	26	-	4
MATH0013-1	<i>Algebra</i> - Eric DELHEZ	Q1	26	26	-	5
PHYS2020-2	<i>Physics I : Mechanics</i> - Part A - Hervé CAPS - Part B (optics) - Hervé CAPS	Q1	20 5	20 -	- -	5
ARCH0009-3	<i>Sustainable building construction techniques III: networks</i> - Shady ATTIA - [1d FW, 45h Proj.]	Q1	17	35	[+]	5
MECA0001-2	<i>Mechanics of materials</i> - JeanPierre JASPART - [2h Labo., 12h Proj.]	Q1	27	25	[+]	5
GCIV0184-5	<i>Building Materials</i> - Luc COURARD - [0,5d FW, 12h Labo., 12h Proj.]	Q2	36	16	[+]	5
GEOL0001-1	<i>Geology and Engineering geology</i> - Alain DASSARGUES - [2d FW]	Q2	30	22	[+]	5
ARCH0017-4	<i>Digital architectural modeling</i> - 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	[+]	4
ARCH0069-2	<i>Project management</i> - Shady ATTIA	Q1	15	42	-	3
MATH0067-1	<i>Introduction to statistics and probability</i> - Vincent DENOËL - [15h Proj.]	Q1	20	25	[+]	2
GCIV0608-1	<i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSSEN - [4d FW, 40h Proj.]	Q1	12	12	[+]	5
GCIV2030-2	<i>Structural Design of Buildings</i> - JeanMarc FRANSSSEN - [40h Proj.]	Q2	15	30	[+]	4