

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.

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	[+]	5
	Corequisite : ARCH0115-1 - Ateliers d'architecture IV					
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 Computationnelle 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				5
			15	14	-	
			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</i> (english language) - 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	[+]	4

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 :					

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) - Margaux GEUZAINÉ	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 15 25	- [+]	5
GCIV0133-9	<i>Maintenance, repair and reinforcement 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 ELSÉN - [30h Proj., 1d FW]	Q1	10	10	[+]	2

Bloc d'aménagement du programme de l'année

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

Compulsory courses

Notice : aux conditions qu'il apprécie, le jury peut admettre les porteurs du diplôme de bachelier en architecture avec un complément de programme pouvant comporter jusqu'à 60 crédits additionnels (voir liste ci-dessous). La liste des unités d'enseignement composant cet aménagement sera ajusté en fonction des acquis particuliers des candidates et candidats.

MATH0002-5	<i>Analyse mathématique 1</i>	Q1				8
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	- <i>Théorie et applications</i> - Eric DELHEZ	22	22	-	
	- <i>Bases mathématiques et répétitions</i> - Patricia TOSSINGS	-	26	-	
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 (english language)</i> - 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
GCIV0608-1	<i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Margaux GEUZAIN - [4d FW, 40h Proj.]	Q2	12	12	[+] 5
GCIV2030-2	<i>Structural Design of Buildings</i> - JeanFrançois DEMONCEAU - [40h Proj.]	Q1	15	30	[+] 5

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 et and from 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> - Pierre LECLERCQ - [1d FW, 100h Proj.]	TA	30	60	[+] 8
ARCH3270-1	<i>Architectural studio IA: Graphic composition</i> - Catherine ELSEN - [1d FW, 35h Proj.]	Q1	10	40	[+] 3
ARCH0066-2	<i>Architectural studio IB: architectural composition</i> - Catherine ELSEN - [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 ELSEN - [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
GCIV0646-1	<i>Buildings conception and execution</i>	Q2			4
	- <i>Basic concepts</i> - [1d FW]		24	-	[+]
	- <i>Advanced concepts + Project</i> - [40h Proj.]		16	-	[+]

ARCH3281-1 *Summary of construction practices in the building industry* -
Pierre LECLERCQ - [1d FW, 30h Proj.]

Q1 7 45 [+] 5