

#### 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.

#### Cours obligatoires du tronc commun

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
	<b>Corequisite :</b> 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
	<b>Corequisite :</b> ARCH2007-2 - Conception architecturale et urbaine durable ARCH0075-3 - Studio Digital Collaboratif BIM					
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>	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> - Introduction - Arnaud THIENPONT - Methods and applications - Arnaud THIENPONT - [16h Proj.]	Q1				5
			15	14	-	
			15	10	[+]	
ARCH0080-1	<i>Building physics and air conditioning</i> - Philippe ANDRE	Q2	30	30	-	4
ARCH2011-1	<i>Sustainable building construction techniques IV : Building renovation</i> - [2d FW]	Q2	15	15	[+]	4
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.]	Q2	26	26	[+]	5
ARCH0075-3	<i>Studio Digital Collaboratif BIM</i> - Aurélie DE BOISSIEU - [1d FW, 78h Proj.]	Q2	15	45	[+]	7
	<b>Corequisite :</b> 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

*Notice* : Cycle de conférences sur les compétences professionnelles de l'ingénieur architecte (déontologie, montage d'opérations immobilières, marchés publics,...) : participation obligatoire

*Notice* : 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

#### Focus courses

UEEN0007-1	<i>District Energy Systems (english language)</i> - N... - [8h Proj., 1d FW]	Q1	16	8	[+]	3
UEEN0008-1	<i>Urban water systems (english language)</i> - Benjamin DEWALS - [12h Proj.]	Q1	18	18	[+]	3
UEEN0002-1	<i>Land rehabilitation in urban environments (english language)</i> - Serge BROUYÈRE, Frédéric COLLIN - [10h Labo., 20h Proj., 2d FW]	Q1	20	10	[+]	5

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

UEEN0003-1	<i>Urban resilience</i> (english language) - Jacques TELLER - [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>Participatory Design at an Urban Scale</i> (english language) - Catherine ELSSEN - [20h Proj., 1d FW]	Q1	20	10	[+]	3
UEEN0006-1	<i>UEE Integrated Project</i> (english language) - Luc COURARD - [100h Proj., 1d FW]	Q1	-	90	[+]	6

#### Cours obligatoires du tronc commun

ARCH0116-3	<i>Architectural studio V: integrated project</i> - Jacques TELLER - [1d FW, 150h Proj.] <b>Corequisite :</b> ARCH0115-1 - Ateliers d'architecture IV	Q2	-	100	[+]	10
ATFE0009-1	<i>Master thesis / project</i> - COLLÉGIALITÉ, Mario COOLS - [600h Proj.]	TA	-	-	[+]	20

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*Notice* : 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

#### 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> - 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	[+]	<b>6</b>
ARCH2224-1	<i>Architectural culture 2 - history of construction - Antiquity to the 19th century</i>	Q2	40	-	-	<b>4</b>
ARCH3260-2	<i>Architectural studio II, Introduction</i> - Catherine ELSEN - [1d FW, 85h Proj.]	TA	20	70	[+]	<b>7</b>
ARCH3262-1	<i>Architectural studio III A</i> - Shady ATTIA - [1d FW, 55h Proj.]	Q1	10	35	[+]	<b>5</b>
ARCH3263-1	<i>Architectural studio III B</i> - Sigrid REITER - [1d FW, 55h Proj.]	Q2	10	35	[+]	<b>4</b>
GCIV0646-1	<i>Buildings conception and execution</i> - <i>Basic concepts</i> - Boyan MIHAYLOV - [1d FW] - <i>Advanced concepts + Project</i> - [40h Proj.]	Q2	40	-	[+]	<b>4</b>
			16	-	[+]	
ARCH3281-1	<i>Summary of construction practices in the building industry</i> - [1d FW, 30h Proj.]	Q1	7	45	[+]	<b>5</b>

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

### Compulsory courses

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