

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

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|------------|--|----|----|-----|-----|----|
| 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>Architecture workshops 4, Integrated conception</i> - Pierre LECLERCQ - [1d FW, 88h Proj.] | Q1 | 20 | 130 | [+] | 10 |
| | Corequisite : ARCH0075-3 - Studio Digital Collaboratif ARCH2007-2 - Conception architecturale et urbaine durable | | | | | |
| GCIV2021-2 | <i>Concretes and new Materials Technologies</i> - Luc COURARD - [0,5d FW, 6h Labo., 8h Proj.] | Q1 | 34 | 20 | [+] | 5 |
| ARCH0027-2 | <i>Conservation and Restoration of Cultural Built Heritage</i> - Pierre PAQUET - [1d FW] | Q1 | 30 | - | [+] | 3 |
| DROI2222-3 | <i>Notions of property law</i> - Pascale LECOCQ - Suppl : Sophie BOUFFLETTE | Q2 | 15 | - | - | 2 |
| ARCH3271-1 | <i>Introduction to Research</i> - Samia BEN RAJEB, 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> - JeanJacques EMBRECHTS - [16h Proj.] | Q2 | 30 | 24 | [+] | 6 |
| ARCH0080-1 | <i>Building physics and air conditioning</i> - Philippe ANDRE | Q2 | 30 | 30 | - | 6 |
| ARCH2011-1 | <i>Durable 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 | 30 | 30 | [+] | 5 |
| ARCH0075-3 | <i>Studio Digital Collaboratif</i> - Pierre LECLERCQ - [1d FW, 78h Proj.] | Q1 | 15 | 45 | [+] | 6 |
| | Corequisite : ARCH0115-1 - Ateliers d'architecture IV | | | | | |
| GCIV2052-1 | <i>Urban transport and mobility (english language)</i> - Mario COOLS | Q2 | 25 | 25 | - | 3 |

Notice : Annual study trip : guided tours on 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.

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

Notice : Annual study trip : guided tours on 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.

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|------------|--|----|---|-----|-----|-----------|
| ARCH0116-3 | <i>Architectural studio V: integrated project</i> - Catherine ELSEN, Jacques TELLER - [1d FW, 150h Proj.] Prerequisite : ARCH0115-1 - Ateliers d'architecture IV Corequisite : GCIV2052-1 - Urban transport and mobility ARCH2017-3 - Conception et aménagement des espaces publics | Q2 | - | 100 | [+] | 10 |
| ATFE0009-1 | <i>Final Work / Final Architecture project (including an introduction to methodology and research)</i> - COLLÉGIALITÉ, Pierre LECLERCQ - [500h Proj.] | TA | - | - | [+] | 20 |

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</i> (english language) - JeanMarc FRANSSSEN | Q2 | 20 | 10 | - | 2 |
| ARCH2017-3 | <i>Design and public areas planning</i> - Philippe HANOCQ - [1d FW, 60h Proj.] Corequisite : GCIV2052-1 - Urban transport and mobility ARCH0116-3 - Ateliers d'architecture V : Projet intégré | Q1 | 20 | 40 | [+] | 5 |
| GCIV2179-1 | <i>Transportation planning and modelling</i> (english language) - Mario COOLS - [30h Proj., 2d FW] Corequisite : GCIV2052-1 - Urban transport and mobility | Q1 | 15 | 15 | [+] | 3 |
| ARCH2019-1 | <i>Engineering of urban moods</i> - Sigrid REITER - [12h Proj.] Prerequisite : ARCH2007-2 - Conception architecturale et urbaine durable | Q1 | 8 | 30 | [+] | 2 |
| ARCH2018-1 | <i>Urban governance</i> - 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) - Shady ATTIA - [30h Proj.] Prerequisite : ARCH0080-1 - Physique du bâtiment et climatisation | Q1 | 12 | 20 | [+] | 3 |
| 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 |
| 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"

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|------------|---|----|----|----|-----|----------|
| UEEN0001-1 | <i>Water and energy in urban environments</i> (english language) - Pierre DEWALLEF, Benjamin DEWALS - [2d FW] | Q1 | 30 | 30 | [+] | 5 |
| UEEN0002-1 | <i>Urban recycling : land and wastes</i> (english language) - Serge BROUYÈRE, Luc COURARD - [10h Labo., 20h Proj., 2d FW] | Q1 | 20 | 10 | [+] | 5 |

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|------------|---|----|----|----|-----|---|
| UEEN0003-1 | <i>Resilience and constructions in urban areas</i> (english language) - Robert CHARLIER, Thomas GERNAY - [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 | 30 | 30 | [+] | 5 |
| UEEN0005-1 | <i>Urban sociology and co-design</i> (english language) - [20h Proj., 1d FW] | Q1 | 20 | 10 | [+] | 2 |
| UEEN0006-1 | <i>UEE project</i> (english language) - Shady ATTIA, Frédéric NGUYEN, Philippe RIGO - [100h Proj., 1d FW] | Q1 | - | 90 | [+] | 8 |

Research Focus

Aimed at students who have taken this focus in 2015-2016.

Additional courses for Erasmus students

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|------------|--|----|----|----|-----|---|
| 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 in Civil Architectural 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 |
| ARCH0067-5 | <i>Architecture History</i> - Catherine ELSEEN - [10h Proj.] | Q2 | 39 | - | [+] | 4 |
| ARCH3270-1 | <i>Graphic Composition IA-architecture workshop</i> - Catherine ELSEEN - [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 | [+] | 3 |
| ARCH0009-3 | <i>Durable building construction techniques 2 : networks</i> - Shady ATTIA - [1d FW, 45h Proj.] | Q1 | 20 | 40 | [+] | 5 |
| ARCH0006-2 | <i>Methodology of Architectural Projects II : bioclimatic composition</i> - Pierre LECLERCQ - [1d FW, 85h Proj.] | TA | 40 | 50 | [+] | 8 |
| ARCH3260-1 | <i>Architectural studio IIA</i> - Catherine ELSEEN - [0,5d FW, 55h Proj.] | Q1 | 10 | 35 | [+] | 4 |
| ARCH3261-1 | <i>Architectural studio IIB</i> - Catherine ELSEEN - [0,5d FW, 70h Proj.] | Q2 | 10 | 45 | [+] | 5 |
| ARCH0017-4 | <i>Digital architectural modeling</i> - Pierre LECLERCQ - [98h Proj.] | Q2 | 20 | 70 | [+] | 8 |
| ARCH3262-1 | <i>Architecture workshops III A</i> - Shady ATTIA - [1d FW, 55h Proj.] | Q1 | 10 | 35 | [+] | 4 |
| ARCH3263-1 | <i>Architectural studio III B</i> - Sigrid REITER - Suppl : Ngoc Luan NGUYEN - [1d FW, 55h Proj.] | Q2 | 10 | 35 | [+] | 4 |
| GCIV2030-2 | <i>Structural Design of Buildings</i> - JeanMarie BLEUS - [40h Proj.] | Q2 | 15 | 30 | [+] | 4 |

Additional ECTS Master in architectural engineering (aimed at bachelors in architecture)

Compulsory courses

| | | | | | | |
|------------|---|----|----|----|-----|----------|
| MATH0066-1 | <i>Complement of mathematics</i> - Patricia TOSSINGS | Q2 | 30 | 30 | - | 4 |
| MATH0013-2 | <i>Algebra</i> - Eric DELHEZ | Q1 | 15 | 10 | - | 3 |
| PHYS2020-2 | <i>Physics 1 : Mechanics</i> - Hervé CAPS | Q1 | 25 | 20 | - | 5 |
| ARCH0009-3 | <i>Durable building construction techniques 2 : networks</i> - Shady ATTIA - [1d FW, 45h Proj.] | Q1 | 20 | 40 | [+] | 5 |
| MECA0001-2 | <i>Mechanics of materials</i> - JeanPierre JASPART - [2h Labo., 12h Proj.] | Q1 | 30 | 28 | [+] | 5 |
| GCIV0184-5 | <i>Building materials</i> - Luc COURARD - [0,5d FW, 12h Labo., 12h Proj.] | Q2 | 36 | 4 | [+] | 5 |
| GEOL0001-1 | <i>Geology and Engineering geology</i> - Alain DASSARGUES - Suppl : Philippe ORBAN - [2d FW] | Q2 | 35 | 25 | [+] | 5 |
| ARCH0017-4 | <i>Digital architectural modeling</i> - Pierre LECLERCQ - [98h Proj.] | Q2 | 20 | 70 | [+] | 8 |
| ARCH0079-1 | <i>Durable building construction techniques : envelope</i> - Sigrid REITER - [40h Proj.] | Q1 | 15 | 30 | [+] | 5 |
| ARCH0069-2 | <i>Project Management</i> - Shady ATTIA - [1d FW, 30h Proj.] | Q1 | 20 | 25 | [+] | 3 |
| MATH0067-1 | <i>Introduction to statistics and probability</i> - Mario COOLS, 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> - JeanMarie BLEUS - [40h Proj.] | Q2 | 15 | 30 | [+] | 5 |