

Faculty of Engineering and Architecture

Master of Science in Engineering: Architecture

Language of instruction: Dutch

Programme version 1

1 General Courses

54 credits

1.1 Module Practices

20 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E076621 Principles of Law and Construction Law <i>Jelle Laverge -- Department of Architecture and Urban Planning</i>	3		1	A:1	90
2	E081810 Transformation: from Theory to Practice of Change [en] <i>Joachim Declerck -- Department of Architecture and Urban Planning</i>	3		1	A:2	90
3	E083940 Professional Practice: Deontology for the Architect Engineer <i>Jan Moens -- Department of Architecture and Urban Planning</i>	5		2	A:2	150

1.1.1 Master Studio 1

[Subscribe to 9 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081910 Master Studio 1: Tectonics and Building Systems [en, nl] <i>Jan Moens -- Department of Architecture and Urban Planning</i>	9		1	A:1	270
2	E081920 Master Studio 1: a Layered Modernity <i>Dirk De Meyer -- Department of Architecture and Urban Planning</i>	9		1	A:1	270
3	E081930 Master Studio 1: Interiors and Cities [en, nl] <i>Dirk Somers -- Department of Architecture and Urban Planning</i>	9		1	A:1	270
4	E081940 Master Studio 1: Architecture, City and Transition [en, nl] <i>Annekatrien Verdickt -- Department of Architecture and Urban Planning</i>	9		1	A:1	270

1.2 Module Aspects

21 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E051180 Building Acoustics and Lighting [en] <i>Marcelo Blasco Enbrie -- Department of Architecture and Urban Planning</i>	4		1	A:1	120
2	E081820 Software-supported Design of 2D Concrete Elements [en] <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	4		1	A:1	120
3	E081830 Performance-based design: Fire Protection of Buildings [en] <i>Bart Merci -- Department of Structural Engineering and Building Materials</i>	4		1	A:2	120
4	E081950 Master Studio 2: Taking Stock [nl, en] <i>Kristiaan Borret -- Department of Architecture and Urban Planning</i>	9		1	A:2	270

1.3 Module Positions

13 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081840 Architecture, Discourse and Mediality <i>Maarten Van Den Driessche -- Department of Architecture and Urban Planning</i>	4		1	A:2	120
2	E081960 Master Studio 3: Wicked Problem <i>Joachim Declerck -- Department of Architecture and Urban Planning</i>	9		2	A:1	270

2 Elective Courses

42 credits

[Subscribe to 42 credit units from 3 modules from the following list. Subject to approval by the faculty.](#)

Divided as follows:

- 20 ECTS in year 1
- 22 ECTS in year 2

2.1 Specialist Modules

24 credits

Subscribe to 24 credit units from 2 modules from the following list. Subject to approval by the faculty.

Divided as follows:

- 12 ECTS from one module in year 1
- 12 ECTS from one module in year 1

2.1.1 Module Materials and Service Life

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E080071 Construction Ecologies <i>Lionel Devlieger -- Department of Architecture and Urban Planning</i>	5	m		A:1	150
2	E081860 Durability of Building Materials [en] <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>	3	m		A:1	90
3	E081850 Life Cycle Assessment of Buildings <i>Marijke Steeman -- Department of Architecture and Urban Planning</i>	4	m		A:2	120

2.1.2 Module Housing and Urban Transformation

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081870 Histories of the Housing Question [en] <i>Anne Kockelkorn -- Department of Architecture and Urban Planning</i>	4	w		A:1	120
2	E081880 Real Estate and Project Development [en, nl] <i>Nathan Van Den Bossche -- Department of Architecture and Urban Planning</i>	5	w		A:1	150
3	E081890 Energy Transition of Buildings [en] <i>Arnold Janssens -- Department of Architecture and Urban Planning</i>	3	w		A:2	90

2.1.3 Module Public Buildings and Landscapes

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081420 Architectural Criticism: Public Buildings [en] <i>Maarten Liefoghe -- Department of Architecture and Urban Planning</i>	4	p		A:2	120
2	E081430 Urban Analysis and Design [en] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	4	p		A:1	120
3	E081440 Landscape Ecology	4	p			120

2.1.4 Module Structure and Building

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081450 Connections and Built-up Structural Members [en] <i>Robby Caspele -- Department of Structural Engineering and Building Materials</i>	4	s		A:1	120
2	E081460 Positions in Engineering Design and Architecture [en] <i>Johan Lagae -- Department of Architecture and Urban Planning</i>	4	s		A:1	120
3	E081470 Geotechnics <i>Wim Haegeman -- Department of Civil Engineering</i>	4	s		A:2	120

2.1.5 Module Comfort and Climate

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081480 Climate, Architecture and the City: a History [en] <i>Johan Lagae -- Department of Architecture and Urban Planning</i>	3	c		A:1	90
2	E081490 Building Performance Simulation <i>Arnold Janssens -- Department of Architecture and Urban Planning</i>	4	c		A:1	120
3	E081380 Sustainable Energy Concepts for Buildings <i>Wim Boydens -- Department of Architecture and Urban Planning</i>	5	c		A:2	150

2.2 Research Seminars

10 credits

Subscribe to 10 credit units from the following list. Subject to approval by the faculty.

Divided as follows:

- 5 ECTS in year 1
- 5 ECTS in year 2

The courses with a reference can only be taken up in combination with a module with the same reference.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E081610 Research Seminar: Materials and Service Life [en, nl] <i>Lionel Devlieger -- Department of Architecture and Urban Planning</i>	5	m		B:2, A:1	150
2	E081620 Research Seminar: Housing and Urban Transformation [en, nl] <i>Arnold Janssens -- Department of Architecture and Urban Planning</i>	5	w		A:1, B:2	150

3	E081630	Research Seminar: Public Buildings and Landscapes [en, nl] <i>Michiel Dehaene -- Department of Architecture and Urban Planning</i>	5	p	B:2, A:1	150
4	E081640	Research Seminar: Structure and Building [en, nl] <i>Nathan Van Den Bossche -- Department of Architecture and Urban Planning</i>	5	s	B:2, A:1	150
5	E081650	Research Seminar: Comfort and Climate [en, nl] <i>Jelle Laverge -- Department of Architecture and Urban Planning</i>	5	c	A:1, B:2	150
6	E081660	Research Seminar: Architecture [en] <i>Wouter Davidts -- Department of Architecture and Urban Planning</i>	5		B:2, A:1	150

2.3 Free Elective Courses

8 credits

Subscribe to 8 credit units from the modules from the following list. Subject to approval by the faculty.

2.3.1 Other Specialist Module

Courses from another elective specialist module within the programme (module 2.1).

2.3.2 Elective Courses Exact and Engineering Sciences

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E084953 Urban Sound [en] <i>Dick Botteldooren -- Department of Information Technology</i>	3			A:1	90
2	E052630 Prefabricated Concrete Constructions [en] <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3			A:1	90
3	E050720 Diagnosis and Repair of Buildings [en] <i>Stijn Matthys -- Department of Structural Engineering and Building Materials</i>	3			A:1	90
4	E078010 Technology and Environment [en] <i>Luc Martens -- Department of Information Technology</i>	3			A:1	90
5	E078310 Sustainable Use of Materials: Metals <i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:1	90
6	E086611 Mobility, Spatial Planning and Urban Design of Infrastructure <i>Filip Boelaert -- Department of Civil Engineering</i>	3			A:1	90
7	E085740 Instruments for Spatial Policy <i>Ann Pisman -- Department of Civil Engineering</i>	3			A:1	90
8	E099210 Essentials of Artificial Intelligence: a Beginner's Guide [en] <i>Joni Dambre -- Department of Electronics and Information Systems</i>	3	UKV		A:1	90
9	C003080 Programming [en] <i>Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics</i>	5	UKV		C:1	150
10	E061502 Spatial Structures [en] <i>Jan Belis -- Department of Structural Engineering and Building Materials</i>	6			A:1	180
11	E044631 Glass and Facade Structures [en] <i>Jan Belis -- Department of Structural Engineering and Building Materials</i>	3			A:2	90
12	E052621 Concrete Structures: Prestressed Concrete and Slabs [en] <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	3			D:2	90
13	E051800 Contemporary Challenges in Civil Engineering: Capita Selecta [en, nl] <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	3			A:2	90
14	E065480 Life Cycle Assessment of Materials and Structures [en] <i>Nele De Belie -- Department of Structural Engineering and Building Materials</i>	3			A:2	90
15	E084970 Integrated Approach to Water Management and Environmental Policy <i>Renaat De Sutter -- Department of Civil Engineering</i>	3			A:2	90
16	C002660 Introduction to Geotechnics [en] <i>Herman Peiffer -- Department of Civil Engineering</i>	3			A:2	90
17	E080830 Information Management in Architecture and Construction [nl, en] <i>Paulus Present -- Department of Architecture and Urban Planning</i>	3			A:2	90
18	E080823 Digital Design 3: Advanced Modeling Techniques <i>Ruben Verstraeten -- Department of Architecture and Urban Planning</i>	3			A:2	90
19	E050923 Structural Reliability and Risk Analysis [en] <i>Robby Caspeele -- Department of Structural Engineering and Building Materials</i>	4			A:2	120
20	E039060 Sustainable Energy and Rational Use of Energy [en] <i>Filip Strubbe -- Department of Electronics and Information Systems</i>	4			A:2	120

21	I002706	Wood Technology: Wood Processing and Forest Products [en]	5			(A:2) ^c	150
22	E037830	Basics of Health and Safety at Work for Engineers <i>Sofie Van Volsem -- Department of Industrial Systems Engineering and Product Design</i>	3			A:1	90

2.3.3 Elective Courses Social and Behavioural Sciences

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003532 Urbanization in Global Perspective [en] <i>Ben Derudder -- Department of Geography</i>	3			B:2	90
2	C003624 Population and Urban Geography <i>Sofie Annys -- Department of Geography</i>	5			A:1	150
3	K000984 Structure and Conflict in the Global South <i>Koenraad Bogaert -- Department of Conflict and Development Studies</i>	6				180
4	A000677 Introduction to Anthropology <i>Hugo DeBlock -- Department of Languages and Cultures</i>	3			A:2	90
5	A002717 Cultural Anthropology <i>Koenraad Stroeken -- Department of Languages and Cultures</i>	5			A:2	150
6	A002216 Sociology <i>Timo Van Canegem -- Department of Sociology</i>	5			A:2	150
7	H002395 Migration and Society: an Interdisciplinary Introduction [en] <i>Robin Vandevordt -- Department of Social Work and Social Pedagogy</i>	5	UKV		A:2	150
8	A005569 Global Minds [en] <i>Amaury Frankl -- Department of Geography</i>	5	UKV		A:2	150
9	H001977 Coaching and Diversity <i>Elisabeth De Schauwer -- Department of Special Education</i>	3	UKV		A:J	90
10	E084581 Sustainable Cities <i>Thomas Block -- Department of Political Sciences</i>	6			A:J	180
11	E084730 Circular Economy and Regenerative Welfare <i>Jonas Van der Slycken -- Department of Civil Engineering</i>	3			B:2	90

2.3.4 Elective Courses Arts and Cultural Sciences

Nr	Course	CRDT	Ref	MT1	Session	Study
1	A005661 Contemporary Art: Ways of Worldmaking <i>Wouter Davidts -- Department of Art, Music and Theatre Sciences</i>	5			(A:1) ^d	150
2	A005288 Avant-garde Film and Video <i>Steven Jacobs -- Department of Art, Music and Theatre Sciences</i>	5			A:1 ^a	150
3	A000418 Film History and Aesthetics <i>Daniël Biltereyst -- Department of Communication Sciences</i>	5			B:1	150
4	A003107 Advanced Academic English [en] <i>Geert Jacobs -- Department of Linguistics</i>	3	UKV		A:1, B:2	90
5	A005635 Introduction to Heritage <i>Anna Tummers -- Department of Art, Music and Theatre Sciences</i>	3			B:2	90
6	A001974 Aesthetics I <i>Bart Vandenabeele -- Department of Philosophy and Moral Sciences</i>	5			A:2	150
7	A005291 Historic Interior and Design <i>Marjan Sterckx -- Department of Art, Music and Theatre Sciences</i>	5			(A:2) ^d	150
8	A006651 History and Theory of African Urbanism [en] <i>Johan Lagae -- Department of Architecture and Urban Planning</i>	5			A:2	150
9	A005583 Art Policy and Museum Studies [en] <i>Maude Bass-Krueger -- Department of Art, Music and Theatre Sciences</i>	5			A:2	150

2.3.5 Elective Courses Economic Sciences

Nr	Course	CRDT	Ref	MT1	Session	Study
1	F001020 Introduction to Entrepreneurship [en] <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i>	3			A:1	90
2	A005646 Introduction to Business Law <i>Diederik Brueloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i>	3			A:1	90
3	E099160 Project Management in Construction [en] <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i>	3			A:2	90

2.3.6 Elective Courses Internship

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E099400 Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	3			B:J	90
2	E099400 Research Internship [en] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6			A:J	180
3	E099300 Industry Internship Engineering and Architecture [en, nl] <i>Patrick Segers -- Department of Electronics and Information Systems</i>	6			A:J	180
4	E098010 Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	6			A:J	180
5	E098010 Integrated Portfolio [en, nl] <i>Hiep Luong -- Department of Telecommunications and Information Processing</i>	3			B:J	90

2.3.7 Elective Courses Ghent University

Vakken te selecteren uit de opleidingsprogramma's van de Universiteit Gent.

Enkel opleidingsonderdelen die inhoudelijk relevant zijn voor de opleiding ingenieurswetenschappen: architectuur, te motiveren door de student. Na goedkeuring door de faculteit.

3 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091107 Master's Dissertation	24			A:J	720

Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/Serbian	zh: Chinese
cs: Czech	el: Greek	fr: French	nl: Dutch	pt: Portuguese	sl: Slovene	
da: Danish	en: English	it: Italian	no: Norwegian	ru: Russian	sv: Swedish	

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course is not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually	c: annually, from 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030