

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Civil Engineering

Language of instruction: English

Programme version 8

1 General Courses

73 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E001161 Mathematic Models <i>Karel Van Acoleyen -- Department of Electronics and Information Systems</i>	6	BRUG	1	A:1	180
2	E046010 Soil Mechanics [n] <i>Wim Haegeman -- Department of Civil Engineering</i>	3	BRUG	1	B:1	90
3	E044940 FEM and Constitutive Material Laws in Structural Engineering <i>Diego Lorenzo Allaix -- Department of Structural Engineering and Building Materials</i>	3		1	B:1	90
4	E040661 Structural Dynamics <i>Mia Locuffier -- Department of Electromechanical, Systems and Metal Engineering</i>	5		1	B:1	150
5	E045621 Groundwater and Contaminant Flow <i>Herman Peiffer -- Department of Civil Engineering</i>	3		1	D:1	90
6	E045860 Water Management and Environment <i>Tom De Mulder -- Department of Civil Engineering</i>	5		1	B:1	150
7	E044120 Structural Analysis I [n] <i>Robby Caspele -- Department of Structural Engineering and Building Materials</i>	3	BRUG	1	B:2	90
8	E045411 Hydraulics [n] <i>Tom De Mulder -- Department of Civil Engineering</i>	3	BRUG	1	B:1	90
9	E052621 Concrete Structures: Prestressed Concrete and Slabs <i>Roman Wan-Wendner -- Department of Structural Engineering and Building Materials</i>	4		1	B:2	120
10	E054820 Inland Waterways and Locks <i>Tom De Mulder -- Department of Civil Engineering</i>	4		1	D:2	120
11	E052210 Geotechnics <i>Mahya Roustaei -- Department of Civil Engineering</i>	5		1	B:2	150
12	E053560 Specialised Road Engineering and Mobility <i>Pieter De Winne -- Department of Civil Engineering</i>	4		1	C:2	120
13	E044311 Structural Stability <i>Robby Caspele -- Department of Structural Engineering and Building Materials</i>	6		2	A:1	180
14	E050923 Structural Reliability and Risk Analysis <i>Robby Caspele -- Department of Structural Engineering and Building Materials</i>	4		2	A:2	120
15	E054920 Coastal Engineering and Harbour Construction <i>Peter Troch -- Department of Civil Engineering</i>	6		2	B:1	180
16	E044821 Advanced Bridge and Tunnel Engineering <i>Hans De Backer -- Department of Civil Engineering</i>	6		2	A:1	180
17	E050100 Design of Civil Structures <i>Bart De Pauw -- Department of Civil Engineering</i>	3		2	B:2	90

2 Elective Courses

23 credits

Subscribe to 23 credit units from one of the following options, subject to approval by the faculty.

2.1 Major and Elective Courses

23 credits

23 credit units from the Master of Science in Civil Engineering, divided as follows:

- 20 credit units from either the Major Dredging and Offshore Engineering, or the Major Construction Design
- 3 credit units, to be chosen from:
 - a technical elective course from module 3.1 Elective Courses Civil Engineering
 - an internship from module 3.2 Elective Social Courses

- a technical elective course from the study programmes of Ghent University (module 3.3 Elective Courses Ghent University)

Students in the bridging programme can choose in which master's year the courses from the majors are taken (but preferably as close as possible to the regular programme).

2.2 Minor and Elective Courses

23 credits

23 credit units from the Master of Science in Civil Engineering, divided as follows:

- 18 credit units from the Minor Operations Management
- 5 credit units, to be chosen from:
 - the Major Dredging and Offshore Engineering or the Major Construction Design
 - technical elective courses from module 3.1 Elective Courses Civil Engineering
 - an internship from module 3.2 Elective Social Courses
 - technical elective courses from the study programmes of Ghent University (module 3.3 Elective Courses Ghent University)

3 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation	24		2	B: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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029