

First Year

Students studying for the Bachelors in Civil Engineering who have not chosen the appropriate option :

- * must take all the so-called "prerequisite" courses hereafter, if they were not taken during the 1st cycle. These courses must be taken during the 1st year of the masters and some 1st-year compulsory courses must be rolled over to the 2nd year.
- * must subsequently reduce the number of courses they choose to take in the 2nd year of the masters. If all the "prerequisite" courses must be taken, it will be impossible for them to choose which courses they take.
- * cannot choose the professional "management" focus.

The program adapted by these students has to receive the preliminary agreement of the Jury.

Compulsory prerequisites

| | | | | | |
|------------|---|----|----|---|----------|
| GCIV0097-1 | <i>Steel and concrete constructions I</i> - Jean-Claude DOTREPPE, Jean-Pierre JASPART | 30 | 30 | - | 5 |
| GCIV0603-1 | <i>Geotechnics</i> - Robert CHARLIER | 30 | 30 | - | 5 |
| GCIV0604-1 | <i>Hydraulics</i> - Michel PIROTON | 15 | 15 | - | 3 |
| GCIV0184-2 | <i>Building Materials</i> - Luc COURARD | 30 | 30 | - | 5 |
| MECA0012-5 | <i>Mechanics of materials</i> (english) - Serge CESCOTTO | 30 | 30 | - | 5 |
| MECA0442-1 | <i>Mechanics of materials II</i> - Serge CESCOTTO | 15 | 15 | - | 2 |
| GCIV0607-1 | <i>Structural mechanics</i> - Jean-Marc FRANSSSEN | 30 | 30 | - | 5 |

Compulsory courses

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|------------|---|----|----|-----|-----------|
| GCIV0201-1 | <i>Choice and maximisation of construction materials</i> - Luc COURARD | 30 | 30 | - | 5 |
| GCIV2032-1 | <i>Design and means of erection of structures and bridges</i> - Jean-Marie CREMER, Jean-Marc FRANSSSEN | 30 | 30 | - | 5 |
| GCIV2033-2 | <i>Steel, concrete, timber and composite steel-concrete construction</i> - Jean-Claude DOTREPPE, Jean-Marc FRANSSSEN, Jean-Pierre JASPART - [2d FW] | 60 | 60 | [+] | 10 |
| GEOL0001-1 | <i>Geology and Geology for Engineers</i> - Alain DASSARGUES - [2d FW] | 35 | 25 | [+] | 5 |
| GCIV2034-1 | <i>Applied hydraulics</i> - Michel PIROTON | 30 | 30 | - | 5 |
| GCIV2035-1 | <i>Environmental hydrodynamics</i> - Benjamin J. DEWALS, Michel PIROTON | 30 | 30 | - | 5 |
| GCIV2036-1 | <i>Soil and rock mechanics</i> - Albert BOLLE, Frédéric COLLIN | 25 | 25 | - | 4 |
| GCIV2037-1 | <i>Structural Mechanics II</i> - Hervé DEGÉE, Vincent DENOËL | 35 | 35 | - | 6 |
| GCIV0185-2 | <i>Numerical methods in Civil and Geological Engineering - I. Linear methods</i> | | | | 10 |
| | - <i>Linear methods</i> - Vincent DENOËL, Michel PIROTON | 30 | 30 | - | |
| | - <i>Linear and non-linear methods</i> - Robert CHARLIER, Vincent DE VILLE DE GOYET | 30 | 30 | - | |
| GCIV2038-1 | <i>Planning and technical-economic analysis</i> - Jean MARCHAL | 15 | 15 | - | 3 |
| GCIV2039-2 | <i>Seminar</i> - COLLÉGIALITÉ - [2d FW] | 20 | - | [+] | 2 |

Notice : Students who have, in their BAC studies, already the compulsory course GEOL0001-1 *Geology and Engineering Geology* featuring on this Master's programme are obliged to replace it by a course chosen from:

- * GEOL0023-4 *Engineering Geology (integrated group project* - 10h+30h+2jT.t - 5 crédits - NGUYEN F.
- * ARCH00003-4 *Techniques of Building Construction I - Part I* - 30h+30h+2,5jT.t - 5 credits - N. Suppl. : Mauro BACCARINI

Second Year

Compulsory courses

| | | | | | |
|------------|--|----|----|-----|-----------|
| GCIV2040-1 | <i>Hydraulic constructions</i> - Sébastien ERPICUM, Jean MARCHAL, Philippe RIGO - [3d FW] | 60 | 60 | [+] | 10 |
| ATFE0010-1 | <i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ - Final year trip: visits to works of art (optional). | - | - | - | 20 |

Compulsory courses

| | | | | | |
|------------|---|----|----|---|----------|
| GEST3000-2 | <i>First steps in an enterprise</i> - COLLÉGIALITÉ | 24 | - | - | 2 |
| GEST3001-1 | <i>People management and organisation</i> - Jocelyne ROBERT | 24 | 24 | - | 4 |
| GEST3002-1 | <i>Human Resources</i> - Jocelyne ROBERT | 24 | - | - | 2 |

| | | | | | |
|------------|--|----|----|-----|----------|
| GEST3003-1 | <i>Competitive strategy in the marketplace</i> - Michael GHILISSEN | 16 | 16 | - | 3 |
| GEST3004-1 | <i>Marketing (operations and management)</i> - Michael GHILISSEN | 16 | 16 | - | 3 |
| GEST3005-2 | <i>Accountancy and Finance</i> - Jacques BERWART | 24 | 24 | - | 4 |
| GEST3006-1 | <i>Operations and supply chain management I</i> - Yasemin ARDA | 16 | 16 | - | 3 |
| GSTG3001-1 | <i>Business plan</i> - COLLÉGIALITÉ - [30h Internship] | - | - | [+] | 3 |
| GSTG3002-1 | <i>Company diagnostic</i> - COLLÉGIALITÉ - [30h Internship] | - | - | [+] | 3 |

Optional courses

Choose one of the following courses :

| | | | | | |
|------------|--|----|----|---|----------|
| GEST3010-1 | <i>Operations and supply chain management II</i> - Sabine LIMBOURG | 16 | 16 | - | 3 |
| GEST3011-2 | <i>ICT in the service of the company</i> - Maud BAY | 16 | 16 | - | 3 |
| GEST3012-1 | <i>Financial and actuarial modelling</i> - Louis ESCH | 16 | 16 | - | 3 |