

## First Year

### Compulsory courses

AERO0001-1	<i>Aerodynamics</i> (english language) - Thomas ANDRIANNE, Vincent TERRAPON	30	30	-	5
MECA0474-1	<i>Mechanical Computer-Aided-Design</i> (english language) - Eric BÉCHET	30	30	-	5
MECA0031-2	<i>Kinematics and Dynamics of Mechanisms</i> - Olivier BRULS	30	30	-	5
MECA0023-1	<i>Inelastic behavior of solids</i> - JeanPhilippe PONTHOT	30	30	-	5
AERO0030-1	<i>Computational fluid dynamics</i> (english language) - Vincent TERRAPON	30	30	-	5
AERO0023-1	<i>Aircraft design</i> - Grigorios DIMITRIADIS, Ludovic NOELS	30	30	-	5
AERO0003-1	<i>Flight mechanics and airplane performance</i> - Grigorios DIMITRIADIS	30	30	-	5
AERO0025-1	<i>Creation of satellite</i> - Gaëtan KERSCHEN	30	30	-	5
APRI0004-1	<i>Integrated project in aerospace</i> - Ludovic NOELS - [5d FW]	-	60	[+]	5
AERO0014-1	<i>Aeronautic and Space Propulsion</i> - Olivier LÉONARD	30	30	-	5
MECA0462-2	<i>Materials selection</i> (english language) - Jacqueline LECOMTEBECKERS, Davide RUFFONI - [1d FW]	30	30	[+]	5
MECA0029-1	<i>Theory of vibration</i> - JeanClaude GOLINVAL	30	30	-	5

Notice : Students who have, in their BAC studies, already taken one or more compulsory courses in this Master's programme are obliged to replace them by (an)other course(s) in another Faculty's programme; this choice must be approved by the President of the cycle's Jury.

### 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 adapted programme for these students must first gain be approved by the Jury.

### Compulsory prerequisites

MECA0036-1	<i>Finite Element Method</i> (english language) - JeanPhilippe PONTHOT	30	30	-	5
MECA0155-1	<i>Dynamics of Mechanical Systems</i> - JeanClaude GOLINVAL	30	30	-	5
MECA0012-5	<i>Solid mechanics</i> - Laurent DUCHENE	30	30	-	5
MECA0002-1	<i>Applied Thermodynamics and Introduction to Heat Engines</i> - Olivier LÉONARD	30	30	-	5
MECA0445-1	<i>Heat transfer</i> - Pierre DEWALLEF, Vincent TERRAPON	30	30	-	5

### Compulsory courses

MECA0001-1	<i>Mechanics of materials</i> - JeanPierre JASPART	30	30	-	5
SYST0002-1	<i>Modelling and analysis systems</i> - Rodolphe SEPULCHRE - Suppl : Erik QUAEGBEBEUR	30	30	-	5
MECA0012-5	<i>Solid mechanics</i> - Laurent DUCHENE	30	30	-	5
MECA0445-1	<i>Heat transfer</i> - Pierre DEWALLEF, Vincent TERRAPON	30	30	-	5
MECA0155-1	<i>Dynamics of Mechanical Systems</i> - JeanClaude GOLINVAL	30	30	-	5
MECA0036-1	<i>Finite Element Method</i> (english language) - JeanPhilippe PONTHOT	30	30	-	5
MECA0474-1	<i>Mechanical Computer-Aided-Design</i> (english language) - Eric BÉCHET	30	30	-	5
MECA0031-2	<i>Kinematics and Dynamics of Mechanisms</i> - Olivier BRULS	30	30	-	5
MECA0025-1	<i>Fluid Mechanics</i> - Eric DELHEZ	30	30	-	5
AERO0003-1	<i>Flight mechanics and airplane performance</i> - Grigorios DIMITRIADIS	30	30	-	5
APRI0004-1	<i>Integrated project in aerospace</i> - Ludovic NOELS - [5d FW]	-	60	[+]	5
MECA0462-2	<i>Materials selection</i> (english language) - Jacqueline LECOMTEBECKERS, Davide RUFFONI - [1d FW]	30	30	[+]	5
MECA0029-1	<i>Theory of vibration</i> - JeanClaude GOLINVAL	30	30	-	5
AERO0023-1	<i>Aircraft design</i> - Grigorios DIMITRIADIS, Ludovic NOELS	30	30	-	5
AERO0025-1	<i>Creation of satellite</i> - Gaëtan KERSCHEN	30	30	-	5

## Second Year

**Compulsory courses**

ATFE0005-1	<i>Final work (including an internship or a placement in a company or in a research centre under the supervision of the teacher responsible for the final work and including an introduction to research methodology)</i> - COLLÉGIALITÉ	-	-	-	<b>25</b>
------------	--	---	---	---	-----------

**Optional courses**

Choose one of the following courses :

[...] the courses of the University of Liege

[...] the short list below.

LANG1957-1	<i>Dutch for Engeneering Students</i> (dutch language) - Claudine COLIN	60	-	-	<b>5</b>
LANG1958-1	<i>German for Engineering Students</i> (german language) - Françoise CARL	60	-	-	<b>5</b>

In any case, this course must have the approval of the cycle's Jury President.

**Compulsory courses**

GEST3001-1	<i>People management and organisation</i> - Jocelyne ROBERT	24	24	-	<b>4</b>
GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	24	-	-	<b>2</b>
GEST3003-1	<i>Competitive strategy in the marketplace</i> (english language) - Michael GHILISSEN	16	16	-	<b>3</b>
GEST3004-1	<i>Marketing (operations and management)</i> (english language) - Michael GHILISSEN	16	16	-	<b>3</b>
GEST3005-2	<i>Accountancy and Finance</i> - Jacques BERWART	24	24	-	<b>4</b>
GEST3006-1	<i>Operations and supply chain management I</i> (english language) - Yasemin ARDA	16	16	-	<b>3</b>
GSTG3001-1	<i>Business plan</i> - COLLÉGIALITÉ	-	30	-	<b>4</b>
GSTG3002-1	<i>Functional analysis of a company</i> - COLLÉGIALITÉ - [30h Internship]	-	-	[+]	<b>4</b>

**Optional courses**

Choose one of the following courses :

GEST3010-1	<i>Operations and supply chain management II</i> - Sabine LIMBOURG	16	16	-	<b>3</b>
GEST3011-2	<i>ICT for Business</i> - Alain DUBOIS	16	16	-	<b>3</b>
GEST3012-1	<i>Financial and actuarial modelling</i> - Louis ESCH	16	16	-	<b>3</b>