

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

Compulsory prerequisites

MECA0443-1	CAO / Finite Element Methods - Eric BÉCHET, Jean-Philippe PONTHOT	45	30	-	6
MECA0155-1	Dynamics of Mechanical Systems - Jean-Claude GOLINVAL	30	30	-	5
MECA0012-5	Mechanics of materials (english) - Serge CESCOTTO	30	30	-	5
MECA0002-1	Applied Thermodynamics and Introduction to Heat Engines - N... - Suppl : Olivier LÉONARD	30	30	-	5
MECA0445-2	Transfers of heat and matter - Michel HOGGE	30	15	-	4
PHYS0057-1	Wave optics and wave mechanics - Laurent DREESEN	30	30	-	5

Compulsory courses

MECA0001-1	Solid mechanics (english) - Serge CESCOTTO	30	30	-	5
SYST0002-1	Linear systems - Rodolphe SEPULCHRE	30	30	-	5
MECA0012-5	Mechanics of materials (english) - Serge CESCOTTO	30	30	-	5
MECA0445-2	Transfers of heat and matter - Michel HOGGE	30	15	-	4
MECA0155-1	Dynamics of Mechanical Systems - Jean-Claude GOLINVAL	30	30	-	5
MECA0443-1	CAO / Finite Element Methods - Eric BÉCHET, Jean-Philippe PONTHOT	45	30	-	6
MECA0474-1	Mechanical CAD / CAM - Eric BÉCHET	30	30	-	5
MECA0031-2	Kinematics and Dynamics of Mechanisms - Olivier BRULS	30	30	-	5
MECA0025-1	Fluid Mechanics - Jean-André ESSERS	30	30	-	5
AERO0003-1	Flight mechanics and airplane performance - Grigorios DIMITRIADIS	30	30	-	5
APRI0004-1	Unified project in aerospace - Ludovic NOELS - [5d FW]	-	60	[+]	5
MECA0462-1	MECA0462: materials selection - Jacqueline LECOMTE#BECKERS	30	30	-	5
MECA0029-1	Mechanical Vibrations - Gaëtan KERSCHEN	30	30	-	5
AERO0023-1	Aircraft design - Ludovic NOELS	30	30	-	5
AERO0025-1	Satellite engineering - Gaëtan KERSCHEN	30	30	-	5

Compulsory courses

AERO0001-1	Aerodynamics, 30h Th, 30h Exc - Jean-André ESSERS - Suppl : Grigorios DIMITRIADIS	30	30	-	5
MECA0474-1	Mechanical CAD / CAM - Eric BÉCHET	30	30	-	5
MECA0031-2	Kinematics and Dynamics of Mechanisms - Olivier BRULS	30	30	-	5
MECA0023-1	Advanced Solid Mechanics - Jean-Philippe PONTHOT	30	30	-	5
MECA0025-1	Fluid Mechanics - Jean-André ESSERS	30	30	-	5
AERO0023-1	Aircraft design - Ludovic NOELS	30	30	-	5
AERO0003-1	Flight mechanics and airplane performance - Grigorios DIMITRIADIS	30	30	-	5
AERO0025-1	Satellite engineering - Gaëtan KERSCHEN	30	30	-	5
APRI0004-1	Unified project in aerospace - Ludovic NOELS - [5d FW]	-	60	[+]	5
AERO0014-1	Aeronautic and Space Propulsion - Olivier LÉONARD	30	30	-	5
MECA0462-1	MECA0462: materials selection - Jacqueline LECOMTE#BECKERS	30	30	-	5
MECA0029-1	Mechanical Vibrations - Gaëtan KERSCHEN	30	30	-	5

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

Optional courses

MATH0461-1	Intorduction to optimization - Quentin LOUVEAUX	30	30	-	5
MECA0471-1	Finite volumes and fluid dynamics - Jean-André ESSERS	30	30	-	5

Second Year

Compulsory courses

ATFE0005-1	<i>Final work</i> - COLLÉGIALITÉ	-	-	-	20
MECA0028-1	<i>Aeronautical Structures</i> - Claude FLEURY	30	30	-	5

Optional courses

[...] A course to be chosen from the university's programme of courses (with the agreement of the cycle's President of the Jury)

Compulsory courses

GEST3000-1	<i>First steps in an enterprise</i> - Robert NONDONFAZ, Bernard SURLEMONT	0,5	-	-	2
GEST3001-1	<i>Organization analysis</i> - Annie CORNET	-	-	-	3
GEST3002-1	<i>Human Resources Management</i> - Jocelyne ROBERT	16	-	-	3
GEST3003-1	<i>Competitive Strategy in the Marketplace</i> (english) - Michael GHILISSEN	16	-	-	3
GEST3004-1	<i>Marketing (operations and management)</i> (english) - Michael GHILISSEN	16	-	-	3
GEST3005-1	<i>Accountancy and Finance</i> - Jacques BERWART	24	-	-	4
GEST3006-1	<i>Production (Supply chain management)</i> (english) - Yasemin ARDA	45	-	-	3
GSTG3001-1	<i>Internship</i> - COLLÉGIALITÉ	-	-	-	6

Optional courses

Choose one of the following courses :

GEST3010-1	<i>Production 2 (Supply Chain Management 2nd part)</i> (english) - Robert NONDONFAZ	-	-	-	3
GEST3011-1	<i>ICT in the service of the company</i> - Alain DUBOIS	30	-	-	3
GEST3012-1	<i>Financial and actuarial modelling tools</i> - Louis ESCH	16	-	-	3