Study programmes 2007-2008
Faculty of Applied Sciences
civil engineering in chemist

First Year

Compulsory courses

General Education					
DROI0724-2	*law and engineering* - Pascale LECOCQ	15	-	-	**2**
Engineering Sciences					
ELEC0431-1	*Electromagnetic energy transformation* - Christophe GEUZAINE	30	30	-	**5,5**
MECA0002-2	*Applied Thermodynamics and Introduction to Heat Engines* - Jean LEBRUN	20	20	-	**3,5**
MECA0007-1	*Fuel Use* - Albert GERMAIN, Angélique LÉONARD	20	-	-	**2,5**
MECA0011-1	*Fluid Mechanics: Basics* - André LEJEUNE	30	30	-	**5,5**
MECA0014-1	*Introduction to Hydraulic machines and Compressors* - Olivier LÉONARD	20	20	-	**3,5**
MECA0019-2	*Heat Transfers* - Michel HOGGE	10	10	-	**2**
META0002-1	*Metallic Materials* - Jean-Pierre COHEUR	24	12	-	**3**
Basics of Chemical Engineering					
CHIM0009-1	*Applied chemical thermodynamics* - Georges HEYEN	30	30	-	**5,5**
CHIM0012-1	*Chemical Kinetics* - Jean-Paul PIRARD	30	35	-	**5,5**
CHIM0080-1	*Energy carriers and sustainable development* - Albert GERMAIN	30	-	-	**3**
CHIM0022-1	*Introduction to Chemical Engineering* - Michel CRINE	20	10	-	**3**
Chemical Sciences					
CHIM0082-2	*Analytical chemistry (chemical methods)*	30	80	-	**6**
CHIM0604-1	*Chemistry and organic materials* - Christophe DETREMBLEUR	30	60	-	**5,5**
CHIM0034-1	*Inorganic chemistry*	26	24	-	**4**

Second Year

Compulsory courses

General Education					
GEST0106-1	*Elements of Corporate Management* - Pierre-Armand MICHEL	30	-	-	**4**
Chemical Engineering					
CHIM0083-1	*Chemical Engineering (Unit Physical Operations and Non-Specific Aspects of Apparatuses)* - Michel CRINE	45	60	-	**9**
CHIM0023-1	*Chemical Engineering (Reactor Study)* - Dominique TOYE	45	45	-	**8**
CHIM0024-1	*Applied Physical Chemistry* - Benoît HEINRICHS, Jean-Paul PIRARD	30	45	-	**6**
Industrial Chemistry procedures					
CHIM0016-1	*Scientific and Technical Aspects of Silicate Material Manufacturing (Including Glass)* - Rudi CLOOTS	24	-	-	**3**
CHIM0018-1	*Advanced Inorganic Products and Materials* - Rudi CLOOTS	24	-	-	**3**
CHIM0081-1	*Industrial Chemistry Processes* - Albert GERMAIN	45	30	-	**6,5**
CHIM0040-1	*Atelier de conception de procédés* - Georges HEYEN	-	45	-	**3**
CHIM0073-1	*Macromolecular Chemistry Processes* - Jean-Marie LIÉGEOIS	15	-	-	**2**
SYST0004-1	*Modelling of large chemical systems* - Georges HEYEN	30	45	-	**6,5**
Chemistry Complement					
CHIM0015-3	*Analytical chemistry II, physical methods* - Bernard GILBERT	30	60	-	**6**
CHIM0019-2	*Macromolecular chemistry* - Anne-Sophie DUWEZ	20	20	-	**3**

Third Year

Compulsory courses

CHIM0074-1	*Process Security* - Albert GERMAIN	15	15	-	**3**
ATFE0001-1	*Travail de fin d'études*	-	-	-	**27**

Optional courses

Choose one of the following courses :

GEST1069-1	*Introduction to entrepreneurship* - Bernard SURLEMONT	30	-	-	**-**
ECON0878-1	*Microeconomy applied to the engineering science* - Jean-Pierre HANSEN	30	-	-	**-**
ECON0099-1	*Industrial strategy: economic case analysis* - Jean-Pierre HANSEN	30	-	-	**-**

[...]	One General education course to chosen from the University programme and approved by the President of the Board of Studies.				

Three groups of courses chosen from the following five :

Biotechnology and Chemistry

CHIM0055-1	*Chemical Engineering of Polyphase Systems* - Pierre MARCHOT	18	24	-	**3**
CHIM0059-1	*Industrial Microbiology* - Philippe THONART	15	-	-	**2**
CHIM0063-1	*Introduction to general principles in biology and biochemistry* - Jean-Marie FRÈRE	15	-	-	**2**
CHIM0067-1	*Biochemical Reactors II* - Michel CRINE	15	-	-	**2**

Energetics

CHIM0039-1	*Chemical Upgrading of Coal* - Jean-Paul PIRARD	15	-	-	**2**
CHIM0056-1	*Energy Aspects of Unit Physical Operations* - Michel CRINE	15	15	-	**3**
CHIM0071-1	*Reduction of pollutants during combustion* - Albert GERMAIN, Angélique LÉONARD	15	15	-	**4**

Materials

CHIM0038-1	*Physics of Polymer Materials* - Jean-Marie LIÉGEOIS	18	24	-	**3,5**
CHIM0051-1	*Applied Chemistry (Polymers)* - Jean-Marie LIÉGEOIS	15	15	-	**2,5**
CHIM0072-1	*Interface Physical Chemistry* - José MARIEN	15	15	-	**3**

Environment

CHIM0011-1	*Environment Chemical Engineering* - Michel CRINE, Michel CRINE	18	24	-	**3**
CHIM0028-1	*Industrial and Domestic Pollution* - N... - Suppl : Stoyan GAYDARDZHIEV	30	15	-	**4**
CHIM0078-1	*Applied environmental chemistry, physico-chemical, analytical and regulation-related aspects* - Edwin DE PAUW	15	-	-	**2**

Procedures

CHIM0054-1	*Process design workshop : economic optimization* - Georges HEYEN	-	45	-	**3**
META0005-1	*Extractive Metallurgy Principles* - Stoyan GAYDARDZHIEV	20	-	-	**3**
SYST0011-1	*Dynamics and control of chemical systems* - Georges HEYEN	15	15	-	**3**

Optional Free courses in the 3rd year (level)

CHIM0008-1	*Advanced general and physical chemistry* - Rudi CLOOTS	40	40	-	-
CHIM0064-2	*Aerospace Materials (Composites)* - Jean-Marie LIÉGEOIS	20	-	-	-
CHIM0069-1	*Porous Material Physical Chemistry* - Jean-Paul PIRARD	15	-	-	-
CHIM0070-1	*Computer aided process engineering* - Georges HEYEN	15	15	-	-