

## Cycle view of the study programme

Bl Or Th Pr Au Cr

### Compulsory courses (B1 : 60Cr, B2 : 60Cr, B3 : 60Cr)

|                                                                                                                                                                                                                                                                 |                                                                                                                                                  |    |    |    |    |     |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| ARCH0002-1                                                                                                                                                                                                                                                      | <i>Methodology of Architectural Projects I : functional and ergonomical composition</i> - Catherine ELSÉN, Pierre LECLERCQ - [1d FW, 100h Proj.] | B1 | TA | 30 | 60 | [+] | 8 |
| <b>Corequisite :</b><br>ARCH0066-2 - Atelier d'architecture IB-Composition architecturale<br>ARCH3258-1 - Techniques de construction durable des bâtiments IA - éléments - Partie A                                                                             |                                                                                                                                                  |    |    |    |    |     |   |
| ARCH3258-1                                                                                                                                                                                                                                                      | <i>Durable building construction techniques IA - elements - Part A</i> - Shady ATTIA - [1d FW, 45h Proj.]                                        | B1 | Q1 | 20 | 40 | [+] | 5 |
| <b>Corequisite :</b><br>ARCH0002-1 - Méthodologie du projet architectural I : composition fonctionnelle et ergonomique<br>ARCH3259-1 - Techniques de construction durable des bâtiments IB - éléments - Partie B                                                |                                                                                                                                                  |    |    |    |    |     |   |
| ARCH3259-1                                                                                                                                                                                                                                                      | <i>Durable building construction techniques IB - elements - Part B</i> - Shady ATTIA - [1d FW, 30h Proj.]                                        | B1 | Q2 | 12 | 24 | [+] | 3 |
| <b>Corequisite :</b><br>ARCH0066-2 - Atelier d'architecture IB-Composition architecturale<br>ARCH3258-1 - Techniques de construction durable des bâtiments IA - éléments - Partie A                                                                             |                                                                                                                                                  |    |    |    |    |     |   |
| ARCH0067-5                                                                                                                                                                                                                                                      | <i>Architecture History</i> - Catherine ELSÉN - [10h Proj.]                                                                                      | B1 | Q2 | 39 | -  | [+] | 3 |
| ARCH3270-1                                                                                                                                                                                                                                                      | <i>Graphic Composition IA-architecture workshop</i> - Catherine ELSÉN - [1d FW, 35h Proj.]                                                       | B1 | Q1 | 10 | 30 | [+] | 3 |
| ARCH0066-2                                                                                                                                                                                                                                                      | <i>Architectural studio IB: architectural composition</i> - Catherine ELSÉN - [1d FW, 25h Proj.]                                                 | B1 | Q2 | 10 | 40 | [+] | 3 |
| <b>Corequisite :</b><br>ARCH0002-1 - Méthodologie du projet architectural I : composition fonctionnelle et ergonomique<br>ARCH3269-1 - Atelier B : Architecture et empreinte sociétale Niveau 2<br>ARCH3270-1 - Atelier d'architecture IA-Composition graphique |                                                                                                                                                  |    |    |    |    |     |   |
| CHIM9272-2                                                                                                                                                                                                                                                      | <i>Chemistry 1</i> - Benoît HEINRICHS - [4h Labo.]                                                                                               | B1 | Q1 | 25 | 20 | [+] | 4 |
| CHIM9273-2                                                                                                                                                                                                                                                      | <i>Chemistry 2</i> - Benoît HEINRICHS - [8h Labo.]                                                                                               | B1 | Q2 | 15 | 10 | [+] | 2 |
| LANG0038-1                                                                                                                                                                                                                                                      | <i>English</i> - Christine FILOT, ISLV, Sébastien SCHOENMAECKERS - [5h Proj.]                                                                    | B1 | TA | 20 | 60 | [+] | 4 |
| MATH0001-2                                                                                                                                                                                                                                                      | <i>Graphic Communication</i> - Eric BÉCHET                                                                                                       | B1 | Q1 | 20 | 20 | -   | 4 |
| MATH0002-4                                                                                                                                                                                                                                                      | <i>Mathematical analysis 1</i> - Eric DELHEZ                                                                                                     | B1 | Q1 | 22 | 22 | -   | 4 |
| MATH0066-1                                                                                                                                                                                                                                                      | <i>Complement of mathematics</i> - Patricia TOSSINGS                                                                                             | B1 | Q2 | 30 | 30 | -   | 4 |
| MATH0013-2                                                                                                                                                                                                                                                      | <i>Algebra</i> - Eric DELHEZ                                                                                                                     | B1 | Q1 | 15 | 10 | -   | 3 |
| PHYS2020-2                                                                                                                                                                                                                                                      | <i>Physics 1 : Mechanics</i> - Hervé CAPS                                                                                                        | B1 | Q1 | 25 | 20 | -   | 5 |
| PHYS2021-2                                                                                                                                                                                                                                                      | <i>Physics 2 : Electricity and electromagnetism</i> - Hervé CAPS - [20h Proj.]                                                                   | B1 | Q2 | 26 | 14 | [+] | 5 |

Annual study trip : guided tours on architectural and urbanistic achievements (optional).

A visit to a business (optional).

Engineering jobs and careers : compulsory seminars

|                                                                                                                         |                                                                                                                  |    |    |    |    |     |   |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| ARCH0009-3                                                                                                              | <i>Durable building construction techniques 2 : networks</i> - Shady ATTIA - [1d FW, 45h Proj.]                  | B2 | Q1 | 20 | 40 | [+] | 5 |
| <b>Prerequisite :</b><br>ARCH3259-1 - Techniques de construction durable des bâtiments IB - éléments - Partie B         |                                                                                                                  |    |    |    |    |     |   |
| ARCH0006-2                                                                                                              | <i>Methodology of Architectural Projects II : bioclimatic composition</i> - Pierre LECLERCQ - [1d FW, 85h Proj.] | B2 | TA | 40 | 50 | [+] | 8 |
| <b>Prerequisite :</b><br>ARCH0002-1 - Méthodologie du projet architectural I : composition fonctionnelle et ergonomique |                                                                                                                  |    |    |    |    |     |   |
| ARCH0071-2                                                                                                              | <i>Urban planning history</i> - Philippe HANOCQ - [10h Proj.]                                                    | B2 | Q1 | 45 | -  | [+] | 4 |
| <b>Prerequisite :</b>                                                                                                   |                                                                                                                  |    |    |    |    |     |   |

# Study programmes 2015-2016

## Faculty of Applied Sciences

### Bachelor in engineering : architecture

ARCH0067-5 - Histoire de l'architecture

|                                                                                                                                                                                                                                                                                        |                                                                                                                                 |    |    |    |    |     |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| ARCH3260-1                                                                                                                                                                                                                                                                             | <i>Architectural studio IIA</i> - Catherine ELSEN - [0,5d FW, 55h Proj.]                                                        | B2 | Q1 | 10 | 35 | [+] | 4 |
| <b>Prerequisite :</b><br>ARCH0002-1 - Méthodologie du projet architectural I : composition fonctionnelle et ergonomique<br>ARCH3259-1 - Techniques de construction durable des bâtiments IB - éléments - Partie B<br>ARCH0066-2 - Atelier d'architecture IB-Composition architecturale |                                                                                                                                 |    |    |    |    |     |   |
| ARCH3261-1                                                                                                                                                                                                                                                                             | <i>Architectural studio IIB</i> - Catherine ELSEN - [0,5d FW, 70h Proj.]                                                        | B2 | Q2 | 10 | 45 | [+] | 5 |
| <b>Corequisite :</b><br>ARCH3260-1 - Ateliers d'architecture IIA                                                                                                                                                                                                                       |                                                                                                                                 |    |    |    |    |     |   |
| INFO2047-1                                                                                                                                                                                                                                                                             | <i>Introduction to computer programming</i> - Benoît DONNET, Raphaël FONTENEAU                                                  | B2 | Q1 | 12 | 12 | -   | 2 |
| PROJ0001-1                                                                                                                                                                                                                                                                             | <i>Introduction to numerical methods and project</i> - Olivier BRULS, Quentin LOUVEAUX, Frédéric NGUYEN - [2h Labo., 28h Proj.] | B2 | Q2 | 10 | -  | [+] | 3 |
| <b>Corequisite :</b><br>INFO2047-1 - Introduction à la programmation<br>MATH0013-2 - Algèbre                                                                                                                                                                                           |                                                                                                                                 |    |    |    |    |     |   |
| MECA0001-2                                                                                                                                                                                                                                                                             | <i>Mechanics of materials</i> - JeanPierre JASPART - Suppl : Laurent DUCHENE - [2h Labo., 12h Proj.]                            | B2 | Q1 | 30 | 28 | [+] | 5 |
| MECA0011-2                                                                                                                                                                                                                                                                             | <i>Fluid Mechanics : Basics</i> - Michel PIROTON - [25h Proj.]                                                                  | B2 | Q2 | 20 | 30 | [+] | 4 |
| <b>Prerequisite :</b><br>MATH0066-1 - Compléments de mathématiques<br>PHYS2020-2 - Physique 1 : Mécanique<br><b>Corequisite :</b><br>MECA0001-2 - Mécanique des matériaux<br>PROJ0001-1 - Introduction aux méthodes numériques et projet                                               |                                                                                                                                 |    |    |    |    |     |   |
| MECA0012-6                                                                                                                                                                                                                                                                             | <i>Solid mechanics</i> - Laurent DUCHENE - [15h Proj.]                                                                          | B2 | Q2 | 30 | 30 | [+] | 5 |
| <b>Prerequisite :</b><br>MATH0002-4 - Analyse mathématique 1<br>MATH0013-2 - Algèbre<br>PHYS2020-2 - Physique 1 : Mécanique<br><b>Corequisite :</b><br>MECA0001-2 - Mécanique des matériaux                                                                                            |                                                                                                                                 |    |    |    |    |     |   |
| GCIV0184-5                                                                                                                                                                                                                                                                             | <i>Building materials</i> - Luc COURARD - [0,5d FW, 12h Labo., 12h Proj.]                                                       | B2 | Q2 | 36 | 4  | [+] | 5 |
| <b>Prerequisite :</b><br>CHIM9272-2 - Chimie 1<br>CHIM9273-2 - Chimie 2<br><b>Corequisite :</b><br>MECA0012-6 - Mécanique des solides                                                                                                                                                  |                                                                                                                                 |    |    |    |    |     |   |
| GEOL0001-1                                                                                                                                                                                                                                                                             | <i>Geology and Engineering geology</i> - Alain DASSARGUES - [2d FW]                                                             | B2 | Q2 | 35 | 25 | [+] | 5 |
| MECA0445-2                                                                                                                                                                                                                                                                             | <i>Heat transfer (english language)</i> - Pierre DEWALLEF, Vincent TERRAPON - [4h Labo., 9h Proj.]                              | B2 | Q2 | 30 | 26 | [+] | 5 |
| <b>Prerequisite :</b><br>MATH0002-4 - Analyse mathématique 1<br>MATH0066-1 - Compléments de mathématiques<br><b>Corequisite :</b><br>MECA0011-2 - Eléments de mécanique des fluides                                                                                                    |                                                                                                                                 |    |    |    |    |     |   |

Annual study trip : guided tours on architectural and urbanistic achievements (optional).

|                                                                                                                                                                            |                                                                        |    |    |    |    |     |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----|----|----|----|-----|---|
| ARCH0017-4                                                                                                                                                                 | <i>Digital architectural modeling</i> - Pierre LECLERCQ - [98h Proj.]  | B3 | Q2 | 20 | 70 | [+] | 8 |
| ARCH3262-1                                                                                                                                                                 | <i>Architecture workshops III A</i> - Shady ATTIA - [1d FW, 55h Proj.] | B3 | Q1 | 10 | 35 | [+] | 4 |
| <b>Prerequisite :</b><br>ARCH3261-1 - Ateliers d'architecture IIB<br><b>Corequisite :</b><br>ARCH0079-1 - Techniques de construction durable des bâtiments III : Enveloppe |                                                                        |    |    |    |    |     |   |
| ARCH3263-1                                                                                                                                                                 | <i>Architectural studio III B</i> - Sigrid REITER - [1d FW, 55h Proj.] | B3 | Q2 | 10 | 35 | [+] | 4 |
| <b>Corequisite :</b>                                                                                                                                                       |                                                                        |    |    |    |    |     |   |

# Study programmes 2015-2016

## Faculty of Applied Sciences

### Bachelor in engineering : architecture

|            |                                                                                                                                                                                         |    |    |    |    |     |   |  |  |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|--|--|
|            | ARCH3262-1 - Ateliers d'architecture III A                                                                                                                                              |    |    |    |    |     |   |  |  |
|            | ARCH0068-6 - Urbanisme et sitologie                                                                                                                                                     |    |    |    |    |     |   |  |  |
|            | ARCH0017-4 - Modélisation architecturale numérique                                                                                                                                      |    |    |    |    |     |   |  |  |
| GCIV2030-2 | <i>Structural Design of Buildings</i> - JeanMarie BLEUS - [40h Proj.]                                                                                                                   | B3 | Q2 | 15 | 30 | [+] | 4 |  |  |
|            | <b>Prerequisite :</b><br>MECA0012-6 - Mécanique des solides                                                                                                                             |    |    |    |    |     |   |  |  |
| ARCH0068-6 | <i>Urban planning and site analysis</i> - Jacques TELLER - [34h Proj.]                                                                                                                  | B3 | Q1 | 20 | 30 | [+] | 4 |  |  |
|            | <b>Prerequisite :</b><br>ARCH0071-2 - Histoire de l'urbanisme                                                                                                                           |    |    |    |    |     |   |  |  |
| ARCH0079-1 | <i>Durable building construction techniques : envelope</i> - Sigrid REITER - [40h Proj.]                                                                                                | B3 | Q1 | 15 | 30 | [+] | 4 |  |  |
|            | <b>Prerequisite :</b><br>ARCH0006-2 - Méthodologie du projet architectural II : composition bioclimatique<br>ARCH0009-3 - Techniques de construction durable des bâtiments II : réseaux |    |    |    |    |     |   |  |  |
| GCIV0032-8 | <i>Topography</i> - Roland BILLEN                                                                                                                                                       | B3 | Q1 | 20 | 10 | -   | 3 |  |  |
| ARCH0069-2 | <i>Project Management</i> - Shady ATTIA - [1d FW, 30h Proj.]                                                                                                                            | B3 | Q1 | 20 | 25 | [+] | 3 |  |  |
|            | <b>Corequisite :</b><br>ARCH0079-1 - Techniques de construction durable des bâtiments III : Enveloppe                                                                                   |    |    |    |    |     |   |  |  |
| GCIV0603-2 | <i>Geotechnics and infrastructure</i> - Robert CHARLIER - [0,5d FW, 2h Labo.]                                                                                                           | B3 | Q2 | 26 | 26 | [+] | 5 |  |  |
|            | <b>Prerequisite :</b><br>MECA0001-2 - Mécanique des matériaux<br>MECA0011-2 - Eléments de mécanique des fluides<br>GEOL0001-1 - Géologie et géologie de l'ingénieur                     |    |    |    |    |     |   |  |  |
| GCIV0608-1 | <i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSEN - [4d FW, 40h Proj.]                                                          | B3 | Q1 | 12 | 12 | [+] | 5 |  |  |
| GCIV2172-1 | <i>Metallic Elements Calculation</i> - JeanPierre JASPART - [1d FW, 10h Proj.]                                                                                                          | B3 | Q2 | 30 | 30 | [+] | 5 |  |  |
| GCIV2173-1 | <i>Reinforced concrete</i> - Boyan MIHAYLOV - [1d FW, 10h Proj.]                                                                                                                        | B3 | Q2 | 30 | 30 | [+] | 5 |  |  |
| MATH0067-1 | <i>Introduction to statistics and probability</i> - Vincent DENOËL                                                                                                                      | B3 | Q1 | 15 | 15 | -   | 2 |  |  |
|            | <b>Prerequisite :</b><br>MATH0002-4 - Analyse mathématique 1                                                                                                                            |    |    |    |    |     |   |  |  |
| MECA0512-1 | <i>Thermodynamics and heat engines : applications in building industry</i> - Vincent LEMORT                                                                                             | B3 | Q2 | 30 | 30 | -   | 4 |  |  |
|            | <b>Prerequisite :</b><br>MATH0002-4 - Analyse mathématique 1<br>MECA0011-2 - Eléments de mécanique des fluides                                                                          |    |    |    |    |     |   |  |  |

Annual study trip : guided tours on architectural and urbanistic achievements (optional).

## Programme transitoire à destination des étudiants ayant réussi leur Bac 2 de "Bachelier en sciences de l'ingénieur, orientation ingénieur civil architecte" en 2014-2015

### Compulsory courses (B1 : 60Cr)

|            |                                                                        |    |    |    |    |     |   |  |  |
|------------|------------------------------------------------------------------------|----|----|----|----|-----|---|--|--|
| ARCH0017-4 | <i>Digital architectural modeling</i> - Pierre LECLERCQ - [98h Proj.]  | B1 | Q2 | 20 | 70 | [+] | 8 |  |  |
| ARCH3262-1 | <i>Architecture workshops III A</i> - Shady ATTIA - [1d FW, 55h Proj.] | B1 | Q1 | 10 | 35 | [+] | 4 |  |  |
| ARCH3263-1 | <i>Architectural studio III B</i> - Sigrid REITER - [1d FW, 55h Proj.] | B1 | Q2 | 10 | 35 | [+] | 4 |  |  |
| GCIV2030-2 | <i>Structural Design of Buildings</i> - JeanMarie BLEUS - [40h Proj.]  | B1 | Q2 | 15 | 30 | [+] | 4 |  |  |
| ARCH0068-6 | <i>Urban planning and site analysis</i> - Jacques TELLER - [34h Proj.] | B1 | Q1 | 20 | 30 | [+] | 4 |  |  |

# Study programmes 2015-2016

## Faculty of Applied Sciences

### Bachelor in engineering : architecture

|            |                                                                                                                                |    |    |    |    |     |   |
|------------|--------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| ARCH0079-1 | <i>Durable building construction techniques : envelope</i> - Sigrid REITER - [40h Proj.]                                       | B1 | Q1 | 15 | 30 | [+] | 4 |
| GCIV0032-8 | <i>Topography</i> - Roland BILLEN                                                                                              | B1 | Q1 | 20 | 10 | -   | 3 |
| ARCH0069-2 | <i>Project Management</i> - Shady ATTIA - [1d FW, 30h Proj.]                                                                   | B1 | Q1 | 20 | 25 | [+] | 3 |
| GCIV0603-2 | <i>Geotechnics and infrastructure</i> - Robert CHARLIER - [0,5d FW, 2h Labo.]                                                  | B1 | Q2 | 26 | 26 | [+] | 5 |
| GCIV0608-1 | <i>Introduction to Structures engineering</i> - JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSEN - [4d FW, 40h Proj.] | B1 | Q1 | 12 | 12 | [+] | 5 |
| GCIV2172-1 | <i>Metallic Elements Calculation</i> - JeanPierre JASPART - [1d FW, 10h Proj.]                                                 | B1 | Q2 | 30 | 30 | [+] | 5 |
| GCIV2173-1 | <i>Reinforced concrete</i> - Boyan MIHAYLOV - [1d FW, 10h Proj.]                                                               | B1 | Q2 | 30 | 30 | [+] | 5 |
| MATH0067-1 | <i>Introduction to statistics and probability</i> - Vincent DENOËL                                                             | B1 | Q1 | 15 | 15 | -   | 2 |
| MECA0512-1 | <i>Thermodynamics and heat engines : applications in building industry</i> - Vincent LEMORT                                    | B1 | Q2 | 30 | 30 | -   | 4 |

*Notice : Annual study trip : guided tours on architectural and urbanistic achievements (optional).*