In order to access the Bachelor in Engineering (Civil Engineering or Architecture), students must have a certificate showing they have passed the special admission exam for this programme. The 2022–2023 programme is subject to change. It is provided for information purposes only.

Programme objectives
Fulfill your ambitions by gaining a grounding in the different aspects of engineering: creating, designing, producing, optimising, securing. You will develop skills ranging from scientific rigour to practical work. You will learn both know-how and interpersonal skills.

Programme’s added value
A « multitechnical » approach that enables you to gain an insight into all the theoretical and applied aspects of this field. A very comprehensive course with a particular focus on individual study and with lectures only making up one element of the course.

Teaching methods
As from the first block, teaching methodologies range from classical courses to projects, including exercise and laboratory sessions.

Succeed in your studies
ULB offers a number of activities and resources that can help you develop a successful strategy before or during your studies. You can make the transition to higher education easier by attending preparatory courses, summer classes, and information and orientation sessions, even before you start your studies at ULB.
During your studies, many people at ULB are there specifically to help you succeed: support staff in each faculty, (inter-)faculty guidance counsellors, tutors, and experts in academic methodology.

International/Openness
The Erasmus exchange programme usually takes place during the master’s course. However, there are bilateral agreements (double degree agreements) enabling you to study abroad from the 3rd block of the bachelor’s course to the end of the 1st block of the master’s course.
Some of the subsequent masters in engineering are organised jointly with VUB in English.

**Job opportunities**

If you go on to do a Master in Civil Engineering, you will be able to work in the following areas:

- Corporate engineer
- Consultant engineer
- Research engineer
- Production engineer
- Engineer in a technical consultancy department.

You could also do research in applied sciences: constructions, chemistry, science of materials, physics, electricity, mechanics, information technologies, biomedical sciences.

**Contacts**

- Philippe.Bogaerts@ulb.ac.be
- +32 2 650 40 93
- https://polytech.ulb.be/fr/les-etudes/bacheliers
Bloc 1 | BA-IRCIC | BA-IRCI

Programme

CHIM-H1702  
**Chimie : science de la matière et de ses transformations**  |  Jérôme Dohet-Eraly (Coordinator)
- 7 credits [lecture: 48h, tutorial classes: 24h, practical work: 12h]  
- First and second terms  
- French

MATH-H1700  
**Sciences pour l'ingénieur**  |  Thomas LESSINNES (Coordinator)
- 6 credits [lecture: 24h, tutorial classes: 48h]  
- First term  
- French

PHYS-H1701  
**Physique générale**  |  Guillaume LENOIR (Coordinator)
- 7 credits [lecture: 36h, tutorial classes: 24h, practical work: 24h]  
- Second term  
- French
# Programme

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lecture</th>
<th>Practical Work</th>
<th>Term</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO-H201</td>
<td>Programmation orientée objet</td>
<td>4</td>
<td></td>
<td></td>
<td>second</td>
<td>French</td>
</tr>
<tr>
<td>MATH-H203</td>
<td>Mathématiques pour l'ingénieur III</td>
<td>5</td>
<td></td>
<td></td>
<td>first</td>
<td>French</td>
</tr>
<tr>
<td>MATH-H204</td>
<td>Analyse numérique</td>
<td>4</td>
<td></td>
<td></td>
<td>first</td>
<td>French</td>
</tr>
<tr>
<td>MECA-H202</td>
<td>Mécanique rationnelle II</td>
<td>5</td>
<td></td>
<td></td>
<td>first</td>
<td>French</td>
</tr>
<tr>
<td>PROJ-H201</td>
<td>Projet multidisciplinaire 2</td>
<td>6</td>
<td></td>
<td></td>
<td>second</td>
<td>French</td>
</tr>
<tr>
<td>STAT-H201</td>
<td>Probabilités et statistiques</td>
<td>5</td>
<td></td>
<td></td>
<td>second</td>
<td>French</td>
</tr>
</tbody>
</table>
### Bloc 3 | BA-IRCIC | BA-IRCI

#### Programme

**ECON-H3701**  
*Controverses socio-techniques* | Céline KERMISCH (Coordinator)  
- 2 credits [lecture: 24h]  
- Second term  
- French

**ELEC-H3700**  
*Electronique et Instrumentation*  
- 4 credits [lecture: 24h, tutorial classes: 12h, practical work: 12h]  
- First term  
- French

**ELEC-H3704**  
*Théorie des circuits*  
- 4 credits [lecture: 18h, tutorial classes: 10h, practical work: 20h]  
- First term  
- French

**INFO-H3703**  
*Systèmes d'exploitation* | Elie JESURAN (Coordinator)  
- 4 credits [lecture: 18h, tutorial classes: 30h]  
- Second term  
- French

**MECA-H3705**  
*Mécanique du Solide et des Structures* | Philippe BOUILLARD (Coordinator)  
- 5 credits [lecture: 30h, tutorial classes: 24h, practical work: 6h]  
- Second term  
- French

**PHYS-H3706**  
*Physique des télécommunications*  
- 4 credits [lecture: 24h, practical work: 12h, project: 12h]  
- Second term  
- French

**PHYS-H3707**  
*Signaux et systèmes de télécommunication*  
- 4 credits [lecture: 24h, practical work: 12h, project: 12h]  
- Second term  
- French

**PHYS-H3708**  
*Circuits logiques et numériques*  
- 4 credits [lecture: 24h, practical work: 12h, project: 12h]  
- Second term  
- French

**PROJ-H3702**  
*Projet multidisciplinaire 3*  
- 6 credits [lecture: 6h, project: 72h]  
- Second term  
- French