Bachelor in Engineering Sciences
Option Charleroi

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.

Programme mnemonic
BA-IRCI
- Option Charleroi: BA-IRCIC

Exists also in
- Option Bruxelles: BA-IRCIB

Studies level
Bachelor

Learning language
French

Schedule
Office hours

Studies category / subcategory
Sciences and technics / Sciences and technics

Campus
Charleroi Ville Haute

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.
It is basically the most general BA course in the French-speaking Region of Belgium.

For most courses you will have at your disposal:
- a specialist laboratory.
- the different faculty libraries as well as the university central libraries, especially the scientific and technical library.
- computer rooms.

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

Succeed in your studies
Choose
The information and guidance counsellors at the InfOR-études service will help you choose your studies throughout the year.

Succeed
Take part in preparatory courses or get help to succeed, before or during your studies.

Get help
Apply for financial aid, look for accommodation or a student job, get support for your specific needs.

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**

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- +32 2 650 40 93
- https://polytech.ulb.be/fr/les-etudes/bacheliers
Bachelor in Engineering Sciences
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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 term  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
### Bloc 2 | BA-IRCIC | BA-IRCI

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<th>Programme</th>
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<th>Lectures</th>
<th>Practical Work</th>
<th>Term</th>
<th>Language</th>
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<tr>
<td><strong>INFO-H201</strong></td>
<td>Programme orientée objet</td>
<td>Matthieu AERSSENS (Coordinator)</td>
<td>4 credits [lecture: 18h, practical work: 30h]</td>
<td>second term</td>
<td>French</td>
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<tr>
<td><strong>MATH-H203</strong></td>
<td>Mathématiques pour l'ingénieur III</td>
<td>Thomas LESSINNES (Coordinator)</td>
<td>5 credits [lecture: 30h, tutorial classes: 30h]</td>
<td>first term</td>
<td>French</td>
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<tr>
<td><strong>MATH-H204</strong></td>
<td>Analyse numérique</td>
<td>Jérémy DOHET-ERALY (Coordinator)</td>
<td>4 credits [lecture: 24h, practical work: 24h]</td>
<td>first term</td>
<td>French</td>
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<tr>
<td><strong>MECA-H202</strong></td>
<td>Mécanique rationnelle II</td>
<td>Charles CUVELLIEZ (Coordinator)</td>
<td>5 credits [lecture: 24h, tutorial classes: 24h, practical work: 12h]</td>
<td>first term</td>
<td>French</td>
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<td><strong>PROJ-H201</strong></td>
<td>Projet multidisciplinaire 2</td>
<td>Michel KINNAERT (Coordinator)</td>
<td>6 credits [workshop: 72h]</td>
<td>second term</td>
<td>French</td>
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<td><strong>STAT-H201</strong></td>
<td>Probabilités et statistiques</td>
<td>Thomas LESSINNES (Coordinator)</td>
<td>5 credits [lecture: 30h, tutorial classes: 30h]</td>
<td>second term</td>
<td>French</td>
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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 | Jean-François Determe (Coordinator)
  ☑ 4 credits [lecture: 24h, tutorial classes: 12h, practical work: 12h] ☐ first term ☑ French

ELEC-H3704 Théorie des circuits | Jean-François Determe (Coordinator)
  ☑ 4 credits [lecture: 18h, tutorial classes: 10h, practical work: 20h] ☐ first term ☑ French

GEST-H3710 Fouille des données et apprentissage automatique | Olivier CAELEN (Coordinator)
  ☑ 3 credits [lecture: 24h, tutorial classes: 12h] ☐ second 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 | Stéphanie STAQUET (Coordinator)
  ☑ 5 credits [lecture: 30h, tutorial classes: 24h, practical work: 6h] ☐ first term ☑ French

PHYS-H3706 Physique des télécommunications | Jean-François Determe (Coordinator)
  ☑ 4 credits [lecture: 24h, practical work: 12h, project: 12h] ☐ second term ☑ French

PHYS-H3707 Signaux et systèmes de télécommunication | Jean-François Determe (Coordinator)
  ☑ 4 credits [lecture: 24h, practical work: 12h, project: 12h] ☐ second term ☑ French

PHYS-H3708 Circuits logiques et numériques | Jean-François Determe (Coordinator)
  ☑ 4 credits [lecture: 24h, practical work: 12h, project: 12h] ☐ second term ☑ French

PROJ-H3702 Projet multidisciplinaire 3 | Jean-François Determe (Coordinator)
  ☑ 6 credits [lecture: 6h, project: 72h] ☐ second term ☑ French