				Year 1	2	3
LSINC1341	Computer networks		FR [q2] [30h+30h] [5 Credits]			x
LSINC1313	Numerical algorithmic	Estelle Massart Loïc Quertenmont	FR [q1] [30h+30h] [5 Credits]		x	
LSINC1509	Project 4: application of databases		FR [q2] [30h+30h] [5 Credits]			x

Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified **in the detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration puposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the Academic Regulations and Procedures (https://uclouvain.be/fr/decouvrir/rgee.html).

 # Prerequisities list

LANGL1183 "Anglais pour informaticiens II" has prerequisite(s) LANGL1182

- LANGL1182 - English for Computer Scientists

LANGL1184 "Anglais pour informaticiens III" has prerequisite(s) LANGL1183

- LANGL1183 - English for Computer Scientists II

LSINC1104 "Concepts des langages de programmation" has prerequisite(s) LSINC1101

- LSINC1101 - Computer Science 1: Introduction to Programming

LSINC1113 "Compléments de mathématiques" has prerequisite(s) LSINC1111

- LSINC1111 - Analysis

LSINC1114 "Analyse de données biologiques" has prerequisite(s) LSINC1101 ET LSINC1111 ET LSINC1002

- LSINC1101 - Computer Science 1: Introduction to Programming
- LSINC1111 - Analysis
- LSINC1002 - Project 2 in Computer Science: Design of an Interactive Website

LSINC1121 "Algorithmique et structure de données" has prerequisite(s) LSINC1402

- LSINC1402 - Computer Science 2

LSINC1201 "Techniques d'interaction et de visualisation" has prerequisite(s) LSINC1101

- LSINC1101 - Computer Science 1: Introduction to Programming

LSINC1211 "Probabilités et statistiques" has prerequisite(s) LSINC1111 ET LSINC1112

- LSINC1111 - Analysis
- LSINC1112 - Algebra

LSINC1231 "Biochimie" has prerequisite(s) LSINC1131 ET LSINC1132

- LSINC1131 - General and Organic Chemistry
- LSINC1132 - General biology

LSINC1232 "Eléments de pathologie humaine" has prerequisite(s) LSINC1131 ET LSINC1133

- LSINC1131 - General and Organic Chemistry
- LSINC1133 - Introduction to Human Physiology

LSINC1233 "Biodiversité, évolution biologique et écologique" has prerequisite(s) LSINC1132

- LSINC1132 - General biology

LSINC1313 "Algorithmique numérique" has prerequisite(s) LSINC1101 ET LSINC1111 ET LSINC1112

- LSINC1101 - Computer Science 1: Introduction to Programming
- LSINC1111 - Analysis
- LSINC1112 - Algebra

LSINC1331 "Biologie moléculaire" has prerequisite(s) LSINC1231 ET LSINC1211

- LSINC1231 - Biochemistry
- LSINC1211 - Probability and Statistics

LSINC1332 "Biotechnologies: omics" has prerequisite(s) LSINC1231 ET LSINC1211

- LSINC1231 - Biochemistry
- LSINC1211 - Probability and Statistics

LSINC1361 "Intelligence artificielle" has prerequisite(s) LSINC1103 ET LSINC1402

- LSINC1103 - Introduction to Algorithmics
- LSINC1402 - Computer Science 2

LSINC1402 "Informatique 2" has prerequisite(s) LSINC1101

- LSINC1101 - Computer Science 1: Introduction to Programming

LSINC1503 "Projet 3: amélioration de l'efficacité d'algorithmes" has prerequisite(s) LSINC1101

• LSINC1101 - Computer Science 1: Introduction to Programming

LSINC1509 "Projet 4: application des bases de données" has prerequisite(s) LSINC1402

• LSINC1402 - Computer Science 2

The programme's courses and learning outcomes

For each UCLouvain training programme, a reference framework of learning outcomes specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

Detailed programme per annual block

SINC1BA - 1ST ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

Formation en informatique

LSINC1101	Computer Science 1: Introduction to Programming	Kim Mens Siegfried Nijssen	FR [q1] [30h +30h] [5 Credits]
LSINC1102	Computer Hardware Principles	Olivier Bonaventure	FR [q2] [30h +30h] [5 Credits]
LSINC1103	Introduction to Algorithmics		FR [q2] [30h +30h] [5 Credits]
LSINC1001	Project 1 in Computer Science: Applications and Introduction to IoT	Cristel Pelsser	FR [q1] [30h +30h] [5 Credits]
LSINC1002	Project 2 in Computer Science: Design of an Interactive Website	Tom Barbette	FR [q2] [30h +30h] [5 Credits]

Formation en mathématiques et science des données

LSINC1111	Analysis	Geovani Nunes Grapiglia	FR [q1] [30h +30h] [5 Credits]
LSINC1112	Algebra	Stéphanie Guérit	FR [q2] [30h +30h] [5 Credits]

Formation en sciences du vivant

LSINC1131	General and Organic Chemistry	Karine Glinel Patricia Luis Alconero Valérie Norberg Jenny Pouyez	FR [q1] [30h +30h] [5 Credits]
LSINC1132	General biology		FR [q1] [30h +30h] [5 Credits]
LSINC1133	Introduction to Human Physiology	Jean-François Rees	FR [q2] [30h +30h] [5 Credits]

Formation en langues et sciences humaines

LSST1002	Information and critical thinking	Myriam De Kesel Jean-François Rees	FR [q2] [30h +30h] [5 Credits]
LANGL1182	English for Computer Scientists	Lucille Meyers (coord.)	EN [q1] [30h] [5 Credits]

SINC1BA - 2ND ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

Formation en informatique

LSINC1402	Computer Science 2	Sébastien Jodogne Ramin Sadre	FR [q1] [30h +30h] [5 Credits]
LSINC1201	Interaction and Visualization Techniques		FR [q1] [30h +30h] [5 Credits]
LSINC1123	Calculability, Logic and Complexity	Yves Deville	FR [q2] [30h +30h] [5 Credits]
LSINC1104	Programming Paradigms and Concurrency	Peter Van Roy	FR [q2] [30h +30h] [5 Credits]
LSINC1503	Project 3 in Computer Science: Improvement of Algorithms Efficiency		FR [q2] [30h +30h] [5 Credits]
LSINC1313	Numerical algorithmic	Estelle Massart Loïc Quertenmont	FR [q1] [30h +30h] [5 Credits]

Formation en mathématiques et science des données

LSINC1113	Additional Mathematics	Pierre-Yves Gousenbourger	FR [q1] [30h +30h] [5 Credits]
LSINC1211	Probability and Statistics		FR [q2] [30h +30h] [5 Credits]

Formation en sciences du vivant

LSINC1231	Biochemistry		FR [q1] [30h +30h] [5 Credits]
LSINC1233	Biodiversity, Biological and Ecological Evolution	Jonathan Scauflaire	FR [q2] [30h +30h] [5 Credits]

Formation en langues et sciences humaines

LSINC1241	Law, Ethics and Technology		FR [q2] [30h +30h] [5 Credits]

LANGL1183	English for Computer Scientists II		EN [q1] [30h] [5 Credits]

SINC1BA - 3RD ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

Formation en informatique

LSINC1121	Algorithms and data structure		FR [q1] [30h +30h] [5 Credits]
LSINC1252	Informaticals Systems	Etienne Riviere	FR [q1] [30h +30h] [5 Credits]
LSINC1301	Databases and modeling		FR [q1] [30h +30h] [5 Credits]
LSINC1361	Artificial intelligence		FR [q2] [30h +30h] [5 Credits]
LSINC1341	Computer networks		FR [q2] [30h +30h] [5 Credits]
LSINC1509	Project 4: application of databases		FR [q2] [30h +30h] [5 Credits]

Formation en mathématiques et science des données

LSINC1129.173 cm -1 0 0 -1 0 0 cm 0 0 m 36.849998 0 69.067001 0 l S Q q 1 0 0 1 224.354004 40.067001 cm -1 0 0 -1 0 0 cm 0 0 m 226.770996 0 l 225.770996 1 l 1 1			

LSINC1129.173 cm -1 0 0 -1 0 0 cm 0 0 m 36.849998 0 69.067001 0 l S Q q 1 0 0 1 224.354004 40.067001 cm -1 0 0 -1 0 0 cm 0 0 m 226.770996 0 l 225.770996 1 l 1 1

Formation en langues et sciences humaines

LSINC1805	People management	Harmony Glinne-Demaret	FR [q2] [15h +15h] [3 Credits]
LANGL1184	English for Computer Scientists III		EN [q2] [20h] [2 Credits]

• For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your

Evaluation

The evaluation methods comply with the regulations concerning studies and exams (https://uclouvain.be/fr/decouvrir/rgee.html). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Contacts

Curriculum Management

Entity

Structure entity	SST/EPL/INFO
Denomination	(INFO)
Faculty	Louvain School of Engineering (EPL)
Sector	Sciences and Technology (SST)