

# International university diploma in chemistry and physics

**This 1 year International University Diploma in Chemistry and Physics enables the student to study science totally in English while taking French language classes. In the second year, the students can enter into a French National Licence program.**

## Présentation

This International University Diploma (IUD) in Chemistry and Physics enables the student to study from both Physics and Chemistry departments. In the second year, the students that have su



group picture of 2018/2019 year group

## Durée de la formation

- Libellé inconnu

## Lieu(x) de la formation

CY Neuville campus

## Langues d'enseignement

- Libellé inconnu
- Libellé inconnu

## Rythme

- Temps plein

## Modalités

- Présentiel

## Renseignements

[staff.iud-chemistry-and-physics@ml.u-cergy.fr](mailto:staff.iud-chemistry-and-physics@ml.u-cergy.fr)

## Coût de la formation

Registration fees of 5 000 euros for the year and 92 euros of governmental taxes. Registration fees include the following services: tuition for program, science and French courses

## Modalités d'inscription

Students in Europe will follow the Parcoursup procedure. Upon their admission, international students will receive an admission letter and

should come back to the Institution within 2 weeks with their final decision.

## Admission

### Pré-requis

#### Formation(s) requise(s)

#### Admission procedure:

- High school diploma
- English proficiency – IELTS 5.5 or equivalent
- Proof of good academic performance
- Acceptance of candidatures by admission committee

## Et après ?

### Poursuites d'études

- In the second year, the students that have successfully passed their year enter into a second year program leading to a National Licence 3 year Degree.

# Programme



# 1<sup>st</sup> Semester : 30 c

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## UE

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### Maths for science 1

- UE1** - Functions : limits, continuity numbers - 2 variables function
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### Introductory chemistry

- UE2** - Atoms : Emission and absorption  
Lewis and VSEPR models, covalency  
try : Acids and bases in aqueous
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## Introductory physics

**UE3** Kinematics - Dynamics : Newton dynamics : 1<sup>st</sup> Law - **Laboratory**

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**UE4** **Introductory computer science**  
Introduction to algorithms and programming

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**UE5** **General French language**

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**UE6** **Scientific French**



**2<sup>nd</sup> Semester • 30 credits**

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**UE**

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**Maths for science 2**

**UE1** Taylor expansions - Different  
Matrices - Complex numbers

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**Chemistry 2**

**UE2** Solution, organic and thermodynamics - 1<sup>st</sup> and 2<sup>nd</sup> laws of the  
Chemical potential - Phase chemistry - Electronic structure

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**Physics**

**UE3** Thermodynamics : 2<sup>nd</sup> law and hydrodynamics - viscosity - Kinetics

**UE3**      hydrodynamics, viscosity - in  
planet motions - **Laboratory**  
stellarium, collisions

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**UE4**      **Computer science**  
Introduction to programming

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**UE5**      **General French language**

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International University Diploma Program