



RÉPUBLIQUE
FRANÇAISE

*Liberté
Égalité
Fraternité*

UNIVERSITÉ
MARIE & LOUIS
PASTEUR



BAC+3

BACHELOR

Physics-Chemistry

Only the first year in Belfort
(then in Besançon)



This training give the students the opportunity to acquire strong scientific and technical skills in the fields of physics and chemistry. It brings theoretical knowledge as well as experimental protocols, needed to pursue a career in the field of scientific jobs.

It is structured around five specializations: chemistry, physics, sciences, interdisciplinary chemistry and applied physics: photonic, micro and nanotechnology, time-frequency analysis, the latter specialization being a 5-year CMI program.

UFR STGI

Department Sciences and Energy

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Contact

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Further studies

Only the first year in Belfort, the second and third year in Besançon



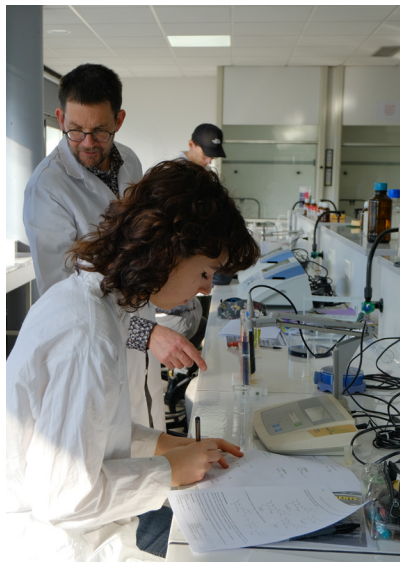
● Objectives

- Acquire theoretical and methodological concepts in the fields of physics, chemistry, and physical chemistry. Develop analytical reasoning skills to solve simple problems in the fields of physics, chemistry, and physical chemistry.
- Develop reasoning abilities. Implement an experimental approach rigorously while following right laboratory practices.
- Critically analyze bibliographic and/or scientific data.
- Learn and act autonomously. Interact and work with others.

● Specific skills

- Analyze, process, and find solutions to energy-related problems in real chemical systems
- Design and apply a logical experimental approach to topics in chemistry or physics.
- Model and analyze physical phenomena through numerical simulation.
- Master the theoretical foundations of organic, inorganic, and computational chemistry.
- Synthesize and purify organic and inorganic compounds, and determine their structural properties using spectroscopic techniques.

The student's final specialization within the Physics-Chemistry program is determined progressively during the first two semesters.



● Profile

Students graduated from a general Baccalauréat with specialties in Mathematics and Physics-chemistry (or in Engineering sciences) and graduates from a technology Baccalauréat of Science Laboratory Technology (SLT).



Find all the
information on
our website:
stgi.umlp.fr



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