

12th Grade Scientific Engineering Sciences

BAC SCIENTIFIQUE SCIENCES DE L'INGENIEUR

Educational Program Objectives

The scientific section emphasis on the basic sciences such as mathematics, physics and chemistry. However, we are giving a prominent place to Literature and to Physical education. The study of a second foreign language is mandatory.

11th Grade

Time schedule includes common lessons in all general subjects like (French, History and Geography, Moral and Civic Education, Sport and foreign languages).

Their goal: to share a basic general knowledge in order to facilitate any change of department.

Then there are specific lessons, including:

- Mathematics, to acquire the fundamental notions and concepts through research activity and problem solving,
- Physics and Chemistry, to focus on the experimental approach,
- Natural and Life Sciences and Earth or Engineering Sciences or Ecology, Agronomy and Territories,

12th Grade - High School Diploma

Common lessons remain such as English, Sport, Civics and Ethics, Mathematics. Regarding schedules, the education focus more on scientific courses.

In addition, the student must choose one more subject in the area of specialization in order to create different profiles:

- Mathematics
- Physics-Chemistry
- Natural and Life Sciences on Earth
- IT. and digital sciences
- Ecology, Agronomy and Territories (taking into account sustainable development).

Study program

TABLE OF CONTENTS	TIMETABLE 11th Grade	TIMETABLE 12th Grade
French	4 hours	
Philosophy		3 hours
Mathematics	4 hours	6 hours
History-Geography	4 hours	
English - Spanish or German	4.30 hours	4 hours
Physics-Chemistry	3 hours	5 hours
Physical Education - Sport	2 hours	2 hours
Initiation in Civics and Ethics	0.30 hours	0.30 hours
Engineering sciences	7 hours	8 hours
Individual support	2 hours	2 hours
Class Life	10 hours a year	10 hours a year
A special topic choice		2 hours

Skill requirements

The student must have a real interest in science field, especially in an experimental approach and the ability to organize himself so as to provide a sustained and regular work in the various disciplines.

Post-secondary studies

Mostly, after following this scientific sector, the graduates are moving towards Engineering Schools, Universities of Sciences or preparatory classes for the “grandes écoles”. However, there are no restrictions regarding the choice of post-secondary studies, students can opt and move towards any sector.