



4th AND 5th YEAR OPTIONS AND CHOICES

2022-2024

Important dates concerning the choice of subjects for years 4 and 5

**During the week of
Monday 06/12/2021**

- ❖ Parents and students receive an email with the invitation to the information evening online and a link to the options booklet

Tuesday 14/12/2021

- ❖ Information evening online on TEAMS (18:00)

Friday 28/01/2022

- ❖ Deadline to fill in the electronic subject choice form
- ❖ Deadline for submitting the language change form, which can be downloaded from the school website

Friday 03/06/2022

- ❖ Deadline to request in writing for more than 35 periods

Friday 01/07/2022

- ❖ Only in exceptional cases, requests for changes to the choice of subjects will be considered if submitted **in writing before 1st July 2022**

2022-2024
4th AND 5th YEAR OPTIONS AND CHOICES

Dear parents,

- 1) Next September your son/daughter will enter the 4th year of secondary school. The 4th and 5th years curriculum consists of compulsory subjects and a number of optional subjects. The 4th and 5th years form the Pre-orientation Cycle during which pupils will study the following compulsory subjects:

Compulsory subjects	Periods
Language I (mother tongue)	4
Language II (first foreign language)	3
Language III (second foreign language)	3
History	2
Geography	2
Biology	2
Chemistry	2
Physics	2
Physical Education	2
Religion or Ethics	1
	23
Mathematics	4 or 6
	27 or 29

In addition to the compulsory subjects, pupils must make a selection from the following optional subjects, in such a way that the total number of their weekly periods lies between a **minimum of 31 and a maximum of 35** for those who have chosen **4 period Maths** and a minimum of **33 and maximum of 35 periods** for those who have opted for the **6 period Maths** course.

Optional subjects	Periods
Latin	4 e)
Language IV (third foreign language) or ONL ¹	4 e) k) l)
Economics	4 e) h)
Art	2 i)
Music	2 i)
ICT (Computing)	2 j)

¹ Other National Languages (ONL) choices available in Luxembourg I are:

- Irish is available to pupils of Irish nationality enrolled in the English-speaking section only.
- Finnish is taught to category I and II Finnish pupils in the Swedish section.
- Swedish is taught to Finnish-speakers in the Finnish section.

- 2) In choosing options, parents and pupils are asked to bear in mind the following points:
- a) The curriculum allows a **maximum of 35 periods** to enable some pupils to take two four period options, for example Latin and Language 4. However, 35 periods should be the exception rather than the rule. All pupils already have 9 examination subjects in the common core of years 4 and 5 and experience has shown the dangers of overburdening them.
 - b) With the exception of ONL, an optional course can only be organised if it is chosen by a sufficient number of candidates, **a minimum of 7 pupils**.
 - c) With the exception of ONL, an optional subject started in the 4th year can be continued in year 6 and 7, only if there are sufficient pupils; a minimum of 5 pupils under the current regulations. For Latin this may be in groups of mixed language.
 - d) **The choice of an optional subject commits a pupil for 2 years: (s)he cannot change, add or drop options as from the start of the 4th year.** However, a pupil can change from Maths 6 to Maths 4 i) at the end of the 1st semester in the 4th year, and ii) at the end of the 4th year, subject to approval by the Class Council. The reverse change is possible, subject to a test.
 - e) As some of the options have to be timetabled concurrently, it will not be possible to provide all combinations, e.g. **timetabling constraints make it impossible for a pupil to choose both Latin and Economics, or both Language 4 and ONL, for example.** In any case it is desirable that the choice of options should help to form a coherent group of subjects for study. Within the limitations of the timetable, the school will try its best to satisfy the greatest possible number of demands made.
 - f) The two Mathematics courses are normally taught separately. Only in exceptional cases could a pupil who had chosen the 4-period course in years 4 and 5 hope to follow the 5 period course in years 6 and 7 (see further below on the appended section).
 - g) In some language sections, it is felt that the choice of Physics and Chemistry options can only be considered in conjunction with the 5-period Mathematics course in years 6 and 7. This will be explained in detail at the year 3 parents' meetings in each language section.
 - h) The Economics courses will be given in the three working languages (German, English, and French). However, a pupil must follow this course in his/her second language (L2).
 - i) The Art and Music courses will normally be given in the language(s) of the teachers available. For some pupils this may therefore be in their mother tongue, for others in one of the working languages.
 - j) ICT (Computing) will be taught, if possible, in the pupil's working language (L2). Where this is not possible, it will be in the pupil's mother tongue or third language (L3).
 - k) Any of the official languages of the European Union may be chosen subject to having sufficient pupils to create the course.

l) ONL (Other National Languages) options run in Irish, Swedish and Finnish. There is no minimum number of pupils for the creation of these courses, which are protected for category I and II pupils of Irish, Swedish and Finnish nationalities. However, when the number of pupils are very small, they can be taught in joined groups of consecutive years. Please be aware **that these are not beginners' courses** and follow on from the ONL courses in years 1, 2 and 3.

3) Brief descriptions of the Mathematics 4 and 6 periods courses and optional courses are appended.

4) Religion and Ethics courses

The school will organise Religion and Ethics courses in accordance with the regulation into force, in the best interest of the pupils and of the school organisation. These courses will be delivered in the pupils' L2, unless there are organisational constraints, as very small number of pupils in a group, in which case the pupils L1 or L3 may be used.

5) Exceeding the limit of 35 periods per week

At the Board of Governors' meeting held in April 2007 it was decided that, whilst schools should continue organising 4th and 5th year timetables on the basis of a maximum of 35 periods per week, pupils could, with the approval of the Director, exceed this limit provided that the course(s) are compatible with their basic timetables. 35 periods already represents a heavy load, and the school management does not want to encourage pupils to choose more, except in **very exceptional cases**. **A request for such a choice must be made in writing, with a justification, at latest by the 3rd June 2022.** The requests will be considered during the summer holiday in the light of the written request, the academic profile of the pupil and timetable possibilities.

6) Curriculum in S6-7

It is highly recommended to have a global view of the curriculum leading to the Baccalaureate in order to understand the possibilities and constraints on choices for S6-7 due to the choices for S4-5 made in year 3.

Before making their choices, parents and pupils wishing to inform themselves about the possibilities open to them in the 6th and 7th years can consult the relevant options and choices booklet available on the school website:

[Choice of subjects for years 6 and 7](#)

Please note that the choice will be binding for years 4 and 5 and that results in all subjects will be taken into account when considering promotion.

Information concerning guidance, the addresses of the Guidance Centres in the different countries and the contact details of our guidance teachers according to nationality can be found on the School website:

<http://www.euroschool.lu/>

Mr. Couché coordinates pupil options for years 4 and 5. Please contact him if you have any questions. E-mail: emmanuel.couche@eursc.eu



Martin WEDEL
Headmaster

MATHEMATICS

Compulsory subject

4 period/week (MATHS 4) OR

6 period/week (MATHS 6)

MATHS 4 (BASE LEVEL)

This course is intended for pupils who don't consider continuing with studies where Mathematics plays an important role. Its purpose is to help pupils to understand the scientific and technological world surrounding them without putting too much emphasis on theoretical aspects of Mathematics.

MATHS 6 (STANDARD LEVEL)

This course is intended for pupils who need Mathematics for their higher level studies, and because of this, can benefit from a solid foundation and a good general knowledge of Mathematics.

WHAT SHOULD BE CONSIDERED WHEN CHOOSING BETWEEN MATHS 4 AND MATHS 6 PERIODS?

a) Pupil's motivation towards Maths

Maths 6 course is much more demanding than Maths 4, and requires a continuous work all along the year. The workload of 6 weekly periods is high, and motivated students will find it easier to overcome the difficulties they may find.

b) Pupil's skills in Maths

Pupils choosing Maths 6 course are supposed to be skilled in Mathematics and with a good knowledge of topics covered in the previous cycle. They should have achieved a good level of autonomy as well as methods to carry out their work in an organized way. The final result in S3, as well as the teacher's advice should play an important role in the choice.

c) Academic choices after secondary education

If strong mathematical skills are required in higher education studies, pupils should choose the Maths 6 course, but only if they are capable to do it.

d) Impact on choices in S6 and S7

The 5 period Maths course in years 6 and 7 can be chosen by pupils who have followed the 4 period course in years 4 and 5 only on the recommendation of the teacher of Mathematics, and on condition that the pupil has been successful in a level test in May. The test includes topics from the Maths 6 curriculum covered during years 4 and 5. The request is examined at the end-of-year Class Council, and the final decision is taken by the Director.

e) Changing from Maths 6 to Maths 4 and vice versa

The change from Maths 6 to Maths 4 is possible in the 4th year i) at the end of the 1st semester, and ii) at the end of the 4th year, subject to approval by the Class Council. The reverse change from Maths 4 to Maths 6 is possible subject to an achievement test.

f) Work load

The choice of Mathematics course may influence the choice of other subjects. Choosing Maths 6 may have as a consequence that pupils can't apply for other courses they may be interested in, as they can't have more than 35 weekly periods. Furthermore, only pupils with high capacities should have a week-workload of 35 periods. Experience has shown the dangers of overburdening pupils in the final cycle.

For further information on Mathematics provision in years 4 to 7, please consult the syllabus available at the website of the Office of the Secretary-General of the European Schools:

<http://www.eursec.eu>

An example of the topics covered in each of the two levels of Mathematics is shown below for year 4.

TABLE OF CONTENTS FOR THE TWO CHOICES OF MATHS IN YEAR 4

TOPIC	MATHS 4	MATHS 6
Basic calculations in N, Z and Q.	X	X
Towards a new set of numbers: R	X	X
Squared roots and powers.	X	X
Proportionality	X	X
Linear models	X	X
Simultaneous linear equations.	X	X
Polynomials	X	X
Right-angled triangles	X	X
Properties of the circle and connections with rightangled triangles		X
Enlargement	X	X
Congruent and similar triangles	X	X
Numbers and points on a plane: coordinate and vectors		X
Vectors and transformations		X
Data collection Organise data Data set characteristics Graphical representations	X	X
Probability	X	X

ECONOMICS

Optional Subject 4 period/week

Preconditions for admission

This course can be chosen by all students as a 4th/5th year option. Those wanting to take economics as an option in the 6th year must have followed the 4th/5th year course. This subject is taught in the working language of the student (L2).

Methodological objectives

- Willingness to discuss current economic problems. Reading of geopolitical phenomena through the economic angle.
- Discovery of entrepreneurship.
- Development of a basic understanding of economic relations at national and international level.
- Ability to critically analyse working tools such as texts, statistics, graphs and images.
- Ability to express oneself using subject-specific terminology.

Content

- 4th Year* Introduction to the fundamentals of economic life: nature of the economy, household consumption, budget, markets, production, organisation of work, markets and price determination, distribution of goods.
- 5th Year* Introduction to money and credit. This course is intended to provide students with an understanding of the nature of the economy, household consumption, budget, markets, production, organisation of work, markets and price determination, distribution of goods, and the national economy (circuit, national aggregates), economic growth, international trade, and international organisations.
- 6th Year* Theoretical and practical studies on supply and demand (basics of microeconomics). The economic circuit and an introduction to macroeconomic models. The role of the state and economic policies.
- 7th Year* European Union and the economy. The possibilities of economic and financial intervention by national authorities, the influence of central banks and European institutions on the labour market, on monetary value. Employment and unemployment Sources of economic growth. Analyses of foreign trade and theories of international trade.

Tests/Examinations

In S4 and S5 two one-period tests each semester constitute the B grade. In addition, written and oral assignments are organised each semester to determine the A grade.

In S6 there are harmonised compositions between all language sections at the end of the semester.

In S7 the test is part of the European Baccalaureate tests (pre-bac in December and final test in June). This includes continuous assessment grades throughout the year (A and B grades).

For further information, the economics teachers are at your disposal:

Mr THUESEN (EN)
Mrs TALIUTE (EN)
Mr TORRES (EN)
Mr BROCARD (FR) Coordinator.
Mr PRIESS (DE)

ICT (COMPUTING)

Optional Subject 2 period/week

In years 4 and 5 students go deeper into the topics, which were taught in years 1-3, and will use more advanced features of applications. Also there are some new topics like databases, and computer graphics. They will understand more and more the connections between those applications and how they can learn things by themselves using ICT.

At this stage it is very important to make the students aware of things like data security and copyright, that they can take the right decisions when they use modern technologies in everyday life.

It is not required to take ICT in year 3 in order to pursue ICT in years 4 and 5.

ICT courses are organized in a modular fashion. In years 4 and 5, the following modules shall be covered:

- Spreadsheets
- Word processing
- Introduction to programming
- Databases
- Computer graphics
- ICT and Society
- Programming of LEGO and Arduino robots
- 3D modelling in photoshop application and then printing of designed objects on 3D printers



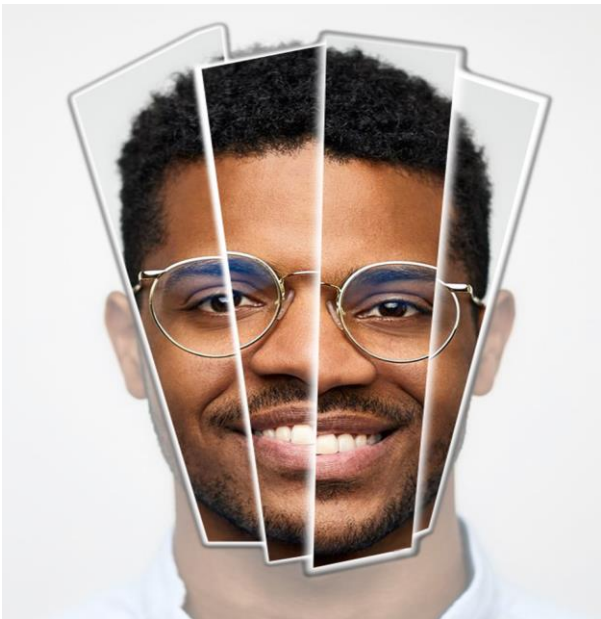
Sample student designs made in the photoshop application



Digital photo taken with a digital brush



Graphic design of the mug



Poster

MUSIC

Optional Subject 2 period/week

In year 4 and 5, students extend their acquired competence in years S1-3 in a topic-based curriculum based on the three areas of musical competence:

- composing and improvising
- performing
- listening and responding

Over the course of the two years, students will study five topics from the list below. These topics are chosen with the students to match their personal interests as well as keeping a broad approach to musical phenomenon. In addition, there is a final project, which takes place in the final period of year 5. The topic of the project is chosen by the student, based on their personal interests and musical skills.

List of choice for study topics:

- Music for film
- Contemporary musical styles and cultures
- Music for dance
- Music for special occasions
- Musical theatre
- European 'folk' traditions
- Music and voice
- Programme music in the 19th Century
- Composing during the last 100 years

Theory, focused listening and analysis of music from many different places, periods and styles round off this broad and ongoing exploration, and provide a good platform for the Bac option in music, should this be chosen.

LATIN

Optional Subject 4 period/week

Preconditions for admission

- This course can only be taken if the student has taken Latin in the third year.
- Those wanting to take Latin as an option in the 6th and 7th year must have followed the 4th and 5th year course.
- The subject is taught in the language 1, however, when the number of students is insufficient (less than 7) to form a class in language 1, the student may be able to join a group in language 2.

Objectives

- Expanding knowledge of the Latin language in order to understand more complex sentence constructions.
- Developing linguistic strategies to translate these constructions into one's own language.
- Discovering Latin as a language of culture in Europe, the language of science, philosophy and the Church.
- Bringing pupils into contact with early European literary masterpieces.

Content

- Translation of texts from historians such as Caesar and Livy, from poets such as Ovid and Catull and from prose writers such as Cicero and Pliny.
- Study of grammar and vocabulary to be able to translate a Latin text of medium difficulty and to develop a better knowledge of Romance languages by etymology.
- Study the masterpieces of Latin literature and ancient art (architecture, sculpture and painting) as well as the later creations they have inspired up to our time.
- Recognise the impact of ancient writings, buildings and works of art on European culture.

Evaluation

- In S4, a few short tests and four long tests and possibly presentations, in S5, in addition to the 2 long tests (and possibly short tests as well as presentations), a harmonised long test as part of the written semester exams before Christmas.
- End of year 5: *Latinum Europaeum*, which consists of a written exam (considered the 4th long test) with an unseen text for all the European Schools at the same time and an oral exam with texts studied during year 5.

The successful candidate receives a certificate of 3 years Latin. The Latinum exam provides a first experience of an oral exam which is also part of the Baccalaureate exams.

The certificate can be important to enter in some universities (e.g. in the Netherlands and Germany).

In addition of the rich cultural content, two 5/6-days trips are provided, one in each study year. The students can witness with his own eyes the Roman heritage in Rome and beyond (e.g. Provence, England or another "Roman" destination).

L4 (3rd foreign language)

Optional Subject 4 period/week

Preconditions for admission

The L4 courses are open to all students of year 4. No knowledge of the language is required to start the course, it is however recommended that you like discovering and studying a new language and its culture.

The L4 course can be continued in years 6 and 7 as an optional 4 period course. If L4 has not been taken in years 4 and 5, it is possible to enter the course after having passed a level test.

Studying a 4th Language also contributes to:

- Understanding the culture of the Language studied.
- Emphasise the pupil's cultural identity as European citizens who are open to other cultures.
- Reinforce the spirit of tolerance, cooperation and dialogue between all the members of the school community.

Objectives

The students will learn how to express themselves in current day to day situations such as going shopping, telling the time, presenting themselves, talking about hobbies, the weather and holidays...

They will discover the language not only from a textbook but also by listening to songs, watching a movie, working on the Internet, reading short stories, etc.

If they continue the language in years 6 and 7, they will discover more about the countries where the L4 language is spoken through press articles and contemporary literature.

Assessment

2 long tests per semester for the B mark.

Small tests, listening exercises, written work and short oral presentations for the A mark.

ART

Optional Subject 2 period/week

Students who would like to pursue Art in years 4 and 5 will be taught in the working language of the student.

The students are expected to show competence and knowledge in the following domains as these will be covered in greater detail:

Art Scientific Basis

- art theory
- art history
- Reception and reflection of artworks

Practical work to include

- Drawing from observation
- Figurative drawing
- Colour theory and its application
- Different techniques: drawing: pencil, charcoal, chalk; painting: acrylic, oil and pastel chalks, oil painting, watercolours,
- 3D work: clay (soft stone, papier-mâché, clay, self-drying clay, ...)

Year 4 - *themes covered in both theoretical and practical areas*

- Portraiture
- Atmospheric perspective
- Suggested art movements :
 - Modern art (Surrealism, Cubism, Dadaism, pop art, abstract art)

Year 5 - *themes covered in both theoretical and practical areas*

- Volume and plasticity
- Painting and mixed media (to include 3D effects, collage, assembling,...)
- Suggested art movements: Baroque, Rococo, Art Nouveau,
- Arts and Crafts
- Photography and/or Photorealism
 - Postmodern art (installation art, conceptual art and multimedia)

For further information please contact the Art teachers, Mrs Arif, Mrs Lajchter, Mrs Louette, Mrs Cvelich, Mrs Morkuviene and Mr Kriaucionis.