

UNIVERSITÉ
MARIE & LOUIS
PASTEUR

UFR SCIENCES &
TECHNIQUES



Département
MATHÉMATIQUES
UFR ST 

UNIVERSITY SITE
UFR ST, Besançon
sciences.umlp.fr

ECTS ITEMS
180

LEVEL OF VALIDATED DIPLOMA
AT EXIT
Bac+3

COURSE DURATION
overall hourly volume : 1500h

TEACHING FORMAT
Face-to-face, distance learning

TRAINING
Initial, continuing

CONTACT
Scolarité, administration
scolarite.ufr-st@umlp.fr

HEAD OF TRAINING :
licence.mathematiques@umlp.fr
(in person)
sup-fc.ctu@umlp.fr (from a
distance)

ORIENTATION STAGE EMPLOI
ose@umlp.fr

SEFOCAL
Service Formation Continue et
Alternance
sefocal@umlp.fr

LICENCE MATHÉMATIQUES

Domaine de formation : Sciences, Technologies, Santé

PRESENTATION

The first two years of the bachelor's degree provide a solid grounding in general mathematics. The third year is subdivided into four tracks (Applied Mathematics, Mathematics for Secondary Education, Fundamental Mathematics and Multidisciplinary Mathematics) depending on the career prospects envisaged.

OBJECTIVES

This course opens the door to careers in teaching, fundamental or applied research and mathematical engineering. It can be taken face-to-face at the UFR ST. The University Marie et Louis Pasteur also offers a distance learning mathematics degree via Sup-FC.

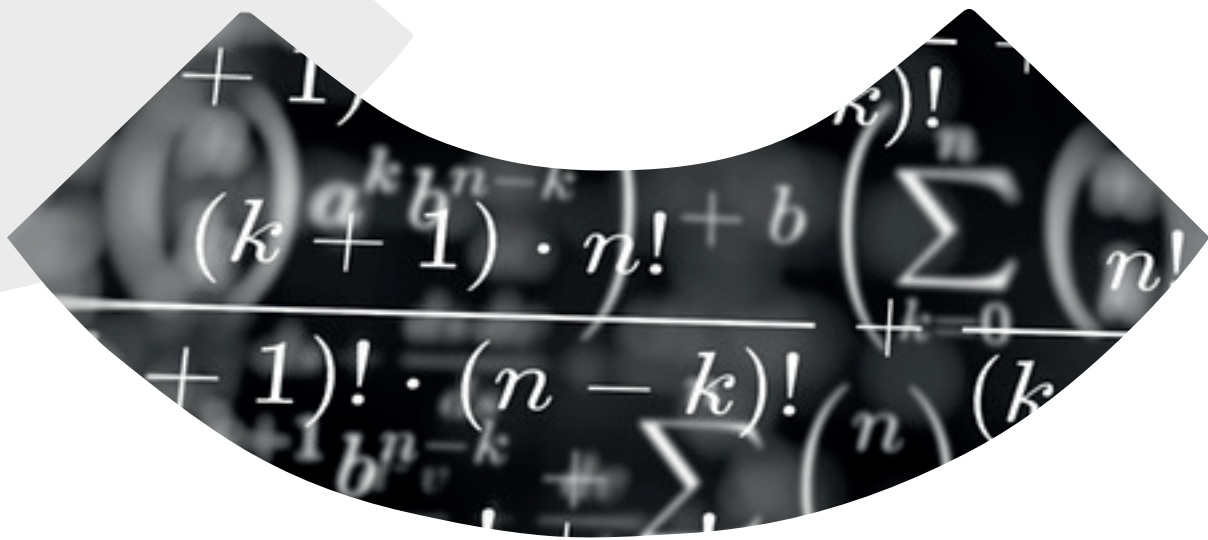
SKILLS

The main skills expected at the end of the course are as follows:

Specific

- Use of mathematical models adapted to a concrete situation.
- Use the fundamentals of logic to organize mathematical reasoning and to organize mathematical reasoning and to write synthetically and rigorously.
- Use basic probabilistic reasoning to model a concrete situation.
- Use algebraic, analytic and geometric properties of \mathbb{R}^n spaces (or normed vector spaces) and apply geometric intuition.
- Apply techniques to approximate solutions of linear, algebraic and differential equations.
- Use the notion of approximation with ease, drawing on the notions of order of magnitude, limit, norm and asymptotic comparison.
- Use formal and scientific calculation software.
- Identify and situate the professional fields potentially related to the skills acquired in this specialization, as well as the possible pathways to access them.

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<https://www.umlp.fr/les-formations>



- Understand and express themselves fluently in spoken and written English.

INTENDED AUDIENCE

Holders of a baccalaureate who have taken the mathematics specialization in première and terminale and preferably the expert mathematics option.

ADMISSION ET REGISTRATION

Visit the application section of the Université Marie et Louis Pasteur website.

FURTHER STUDIES

For the Applied Mathematics pathway, students can pursue a Master's degree in applied mathematics or statistics, or consider joining a company.

The Mathematics for Secondary Education track leads mainly to the MEEF (Métiers de l'Enseignement, de l'Education et de la Formation) master's degree in secondary education.

The Fundamental Mathematics pathway leads to a master's degree in mathematics, then on to the competitive examination for the agrégation in mathematics, or to a doctorate.

The Multi-disciplinary Mathematics path leads preferably to a Master MEEF in primary education, with a view to becoming a school teacher.

TARGET OCCUPATIONS

- Teacher
- Statistician
- Research professions
- Civil service competitions

INTERNSHIP

The program includes a project or internship of 20 half-days in the third year of the bachelor's degree for all courses.

PROGRAM

In the face-to-face format, a portal in the first semester enables students to select a profile from among maths-info and maths-physics-chemistry, gradually moving towards mathematics.

In the third year, students opt for one of four career paths : Applied Mathematics, Mathematics for Secondary Education, Fundamental Mathematics or Multidisciplinary Mathematics.

Students can also apply for the magistère de mathématiques, a high-level course that complements the third-year bachelor's degree and the master's degree in mathematics.