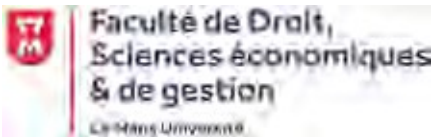


Faculté des Sciences  
Techniques

# Double-Bachelor

## Economics - Mathematics



## Organization of the license

The economics-mathematics double degree is a selective program. It is open to students with a baccalaureate (high school diploma) or, for those with an equivalent diploma, by application after validation. A general baccalaureate (high school diploma) with a specialization in mathematics is strongly recommended. In practice, students apply for both the mathematics and economics bachelor's degrees.

The course lasts 3 academic years. Each teaching unit (UE), associated with European credits (ECTS), is taught in the form of lectures (CM), tutorials (TD) and/or practical work (TP). The UEs are grouped into blocks of skills and knowledge (BCC), indicated below by color code. The organization of the double degree is adapted so as not to double the number of hours, as some UEs count towards both degrees.

The 60 ECTS that make up the Mathematics Bachelor's degree and the Economics Bachelor's degree must be validated in order to obtain a Bachelor's degree. Passage to the following year of the double degree is conditional on validation of the blocks and achievement of the yearly average. At the end of Licence 3, the student obtains the 180 ECTS for each course and the two diplomas: Mathematics and Economics.

### Bachelor 1

fall

spring

ECTS

ECTS

mathséco

mathséco

Hours

Hours

Calcul Maths.	5	5	45
Maths 1	3	3	31
Maths 2	2	2	18
Applied maths for economics 1	2		20
Introduction to economics	4	5	50
Introduction to management	4	5	40
Accounting methods 1	4	4	30
Algo and programming 1	4	3	30
English 1	2	2	20
Business English		1	10

Linear algebra 1	5	4	52
Analysis	7	5	64
Proba / Stats	2	3	20
Micro analysis	5	5	46
Macro analysis	4	5	46
Accounting methods 2		3	36
Algo and programming 2	3		30
English 2	2	2	20
Business English		1	10
PPP	2	2	15

## Bachelor 2

fall

spring

ECTS

ECTS

mathséco

mathséco

Hours

Hours

Linear algebra 2	6	4	55
Num. and prob. series	4	4	36
Riemann integrals	3	3	27
Function series	3	2	22
Maths appli. to eco 2	2	3	20
Microeconomics	2	4	40
Growth and development	2	4	35
Money and Banking 1		3	25
Algo and programming 3	5		52,5
English 3	2	2	20
Business English	1	1	10

Probabilities	4	3	36
More functions. Var.	4	2	42
Alg. and eucl. spaces	3	2	25
Convex analysis	2	2	18
Equations diff. 1	2	2	14
Topology	3		32
Introduction to econometrics	2	3	35
Macroeconomics	2	3	35
Money and Banking 2		3	30
Accounting and management		3	25
Application info. under R	3	2	20
English 4	2	2	20
Business English	1	1	10
PIX	2	2	19

## Bachelor 3

fall

spring

mathséco

ECTS

Hours

mathséco

Hours

Functional analysis	6	4	50
Measurement and integration	6	4	50
Statistical mod.	4	3	30
Math fi. Excel/VBA	2	1	25
In-depth econometrics	2,5	3	35
Risk management	2,5	3	25
Information ec.	3	4	40
Economic and financial environment		3	25
Game theory		3	25
English 5	2	2	20

Differential equations	5	4	50
Proba. and proba. num.	5	4	50
Hilbertian technology	4		25
Financial mod.	3	2	27
Time series	2,5	3	30
Econom. des var. qual.		3	30
Macro dynamics	3	3	30
Market Finance	2,5	3	30
Int. Macro. and finance	3	3	40
Overall balance		3	30
English 6	2	2	20

## Further studies

Masters - Schools

The Double degrees give access to masters degrees in mathematics

and/or economics. These include actuarial science, finance, statistics and applied mathematics, as well as actuarial science and business schools. The double degree gives you a double opportunity.

# How do I register?

## 1 - January :

enter your 10 wishes on the [ww.parcoursup.fr](http://ww.parcoursup.fr) website

## 2 - Late May :

posting of admission proposals and selection of candidates.

## 3 - July :

register as soon as you have received your baccalauréat results on the website

For more information, visit the "Parcoursup" section and/or the Le Mans University website at [www.univ-lemans.fr](http://www.univ-lemans.fr).

TRAINING > APPLICATIONS / REGISTRATIONS



**Double-Licence coordinators:** [dl-ecomaths@univ-lemans.fr](mailto:dl-ecomaths@univ-lemans.fr)

**Institut du risque website :**

[ira.univ-lemans.fr](http://ira.univ-lemans.fr)

**Service des scolarités :**

[sco-sciences@univ-lemans.fr](mailto:sco-sciences@univ-lemans.fr)

+33 2 43 83 32 07

[Scol-ecodroit@univ-lemans.fr](mailto:Scol-ecodroit@univ-lemans.fr)

+33 2 43 83 38 16

**Referral service :**

[suio@univ-lemans.fr](mailto:suio@univ-lemans.fr)

+33 2 43 83 30 67

**Le Mans University:**

[www.univ-lemans.fr](http://www.univ-lemans.fr)

**Faculty of Sciences:**

[sciences.univ-lemans.fr](http://sciences.univ-lemans.fr)

**Faculty of Sciences-éco :**

[ecodroit.univ-lemans.fr](http://ecodroit.univ-lemans.fr)

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