

Faculté des Sciences
Techniques
Le Mans Université

BACHELOR

Mathematics Mathematics & Applications



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& Techniques

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Organization of the

The maths & applications track of the mathematics bachelor's degree is open to students with a baccalauréat or equivalent high school diploma. A general baccalaureate with a specialization in mathematics is strongly recommended.

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.

Each year contains 60 ECTS. The Bachelor of Mathematics degree is awarded on completion of the 180 ECTS for the three years.

LICENCE 1

fall

spring

		ECTS	Hours
Calcul Maths.		6	45
Maths 1		3	31
Maths 2		2	18
option	Physics 1	2,5	24
	Physics 2	2,5	29
	Chemistry 1	2,5	25
	Chemistry 2	2,5	36
	Introduction to economics	4	50
	Introduction to management	4	40
	Applied economics math	2	20
	Algo and programming 1	4	40
English 1	2	20	
Writing for com.	1	13	
Project	2	10	

ion with the PC Licence.

		ECTS	Hours
Linear algebra 1		4,5	52
Analysis		6,5	64
Set theory		3	30
option	Electronics	2	21
	Thermodynamics	2	24
	Mechanics 2	2	29
	Micro analysis	3	46
	Macro analysis	3	46
Algo and programming 2		4	30
English 2		2	20
Writing for com.		2	13
PPP		2	15

The options available in semester 1 will be chosen at the beginning of the year according to your study path and in consultation with the teaching team.

To pass the Licence 1, you need an average of at least 10/20 over the year, at least 8/20 in the maths block (red) in semester 1 and at least 10/20 in the maths block (red) in semester 2.

LICENCE 2

fall

spring

ECTS Hours

ECTS Hours

Linear algebra 2	6	55
Num. series and Proba.	5	36
Riemann integrals	3,5	27
Function series	3	40
Discrete problems	2,5	18
Algo and programming 3	6	52,5
English 3	2	20
EU OUV	2	20

Topology	3	32
More functions. Var.	4	42
Convex analysis	2	18
Probabilities	4	36
Alg. and eucl. spaces	3	25
Alg. and arith. 1	3	28
Equations diff. 1	2	14
Application info. under R	3	20
English 4	2	20
PIX	2	19
EU OUV	2	20

LICENCE 3

fall

spring

ECTS Hours

ECTS Hours

Functional analysis	6,5	50
Measurement and integration	6,5	56
Mod. Statistics	5	30
Algebra and arith. 2	3,5	25
Curves and int. curv.	3	18
Geometry 1	3,5	25
Math fi. Excel/VBA	3,5	25
English 5	2	20

Differential equations	6,5	50	
Proba. and proba. num.	6,5	50	
Hilbertian Tech.	6	35	
Series ent. and fct. analyt.	6	40	
option	Geometry 2	3	25
	Mod. Financial	3	27
	English 6	2	20

The options available in Licence 3 will be chosen at the beginning of the year with the teaching staff according to your career plans.

To validate Licences 2 and 3, you need an annual average of at least 10/20 and an average of at least 10/20 in each math block (in red).

Further studies

Masters - Schools

After the mathematics bachelor's degree, you can go on to study for a master's degree in mathematics and applications, a master's degree in applied mathematics and statistics, a master's degree in actuarial science, or a master's degree in education, teaching and training (MEEF), or even a doctorate (level Bac+8).

How do I register?

1 - January :

enter your 10 wishes on the ww.parcoursup.fr website

2 - Late May :

posting of admission proposals and choice 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 Université website at www.univ-lemans.fr.

TRAINING > APPLICATIONS / REGISTRATIONS



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