

MATHEMATICS DEGREE

Centre (see)	ECTS CREDITS	
	Basic training (FB)	84
	Compulsory (OB)	60
	Optional (OP)	84
	End-of-degree Project (TFG)	12
	Total	240



CLICK ON THE CODE OF EACH SUBJECT TO ACCESS THE COURSE HANDBOOK

FIRST YEAR

Code	Subject	Credits	Type	Semester
16440	LABORATORY	6	FB	Annual
16434	CALCULUS I	9	FB	1
16435	LINEAR ALGEBRA I	9	FB	1
16436	SETS AND NUMBERS	9	FB	1
16437	CALCULUS II	9	FB	2
16438	LINEAR ALGEBRA AND GEOMETRY	9	FB	2
16439	NUMERICAL ANALYSIS	9	FB	2

SECOND YEAR

Code	Subject	Credits	Type	Semester
16441	ANALYSIS	9	OB	1
16442	ALGEBRAICS STRUCTURES	9	OB	1
16443	DISCRETE MATHEMATICS	6	FB	1
	OPTIONAL SUBJECT	6	FB	1
16444	DIFFERENTIAL EQUATIONS	9	OB	2
16445	GEOMETRY OF CURVES AND SURFACES	9	OB	2
16446	PROBABILITY I	6	FB	2
	OPTIONAL SUBJECT	6	FB	2

THIRD YEAR

Code	Subject	Credits	Type	Semester
16447	TOPOLOGY	6	OB	1
16448	STATISTICS I	6	OB	1
	OPTIONAL SUBJECTS	18	OP	1
16449	COMPLEX ANALYSIS I	6	OB	2
16450	MODELIZATION	6	OB	2
	OPTIONAL SUBJECTS	18	OP	2

FOURTH YEAR

Code	Subject	Credits	Type	Semester
	OPTIONAL SUBJECTS	48	OP	1 and 2
<u>16451</u>	END-OF-DEGREE PROJECT	12	TFG	Annual

OPTIONAL SUBJECTS

ROUTE: A GROUP

Code	Subject	Credits	Type	Semester
<u>16454</u>	NUMERICAL METHODS FOR ODE	6	OP	1
<u>16456</u>	GALAOIS THEORY	6	OP	1
<u>16457</u>	INTEGRATION AND MEASURE THEORY	6	OP	1
<u>16452</u>	PARTIAL DIFFERENTIAL EQUATIONS	6	OP	2
<u>16453</u>	DIFFERENTIAL GEOMETRY	6	OP	2
<u>16455</u>	PROBABILITY II	6	OP	2

ROUTE: B GROUP

Code	Subject	Credits	Type	Semester
<u>16462</u>	STATISTICS II	6	OP	1
<u>16465</u>	HISTORY OF MATHEMATICS	6	OP	1
<u>16467</u>	LOGIC	6	OP	1
<u>16468</u>	NUMERICAL METHODS FOR PDE	6	OP	1
<u>16470</u>	ALGEBRAIC NUMBER THEORY	6	OP	1
<u>16471</u>	CRYPTOGRAPHY AND CODING THEORY	6	OP	1
<u>16473</u>	REAL ANALYSIS	6	OP	1
<u>16458</u>	CONMUTATIVE ALGEBRA	6	OP	2
<u>16459</u>	FUNCTIONAL ANALYSIS	6	OP	2
<u>16461</u>	MATHEMATICAL ECONOMY AND FINANCES	6	OP	2
<u>16463</u>	GEOMETRY AND TOPOLOGY	6	OP	2
<u>16466</u>	OPERATION RESEARCH	6	OP	2
<u>16469</u>	DIFFERENTIAL EQUATIONS AND APPLICATIONS	6	OP	2
<u>16472</u>	COMPLEX ANALYSIS II	6	OP	2

ROUTE: C GROUP

Code	Subject	Credits	Type	Semester
	UNITS FROM OTHER DEGREE SUBJECTS WITH A SUBSTANTIAL USE OF MATHEMATICS		OP	1 and 2

ROUTE: D GROUP

Code	Subject	Credits	Type	Semester
<u>16475</u>	EXTERNAL PRACTICAL	6	OP	1 or 2
	LANGUAGES	6	OP	1 and 2
	TRANSVERSAL UNITS	6	OP	1 and 2

The student will have to take 84 ECTS in optional subjects, to be chosen between groups A to D (it should be noticed that at least 24 ECTS must belong to group A and at least other 24 ECTS must belong to the union of groups A and B).

CENTRE

Faculty of Sciences
C/ Darwin, 2
Campus de Cantoblanco
28049 Madrid
Phone: 914978264
[Web page](#) 