

Tavola 1

Programma di Studio Laurea Magistrale in Matematica
Dipartimento di Matematica e Informatica
Università degli Studi di Perugia

	Laurea Magistrale in Matematica (Curriculum Didattico-Generale)	Crediti CFU (ECTS)	
Caratterizza nti- Formazione teorica avanzata	Algebra Commutativa e Computazionale Mat/02 – 42 hours	6	
	Metodi della Fisica Matematica Mat/07 – 47 hours	6	
	Analisi Funzionale Mat/05 – 63 hours	9	
	Geometria Differenziale Mat/03 – 63 hours	9	
	Analisi Funzionale Applicata Mat/05 – 63 hours	9	
	Geometria Algebrica Mat/03 – 63 hours	9	
Affini o Integrative	<p><i>3 corsi a scelta tra i seguenti</i> GRUPPO A:</p> <p>Analisi Moderna – Mat/05 Modellistica Numerica – Mat/08 Simmetrie dei Modelli Matematici – Mat/07 Metodi Geometrici in Teoria della Relatività – Mat/08 Modelli e Metodi Matematici – Mat/05 Modelli Geometrici – Mat/03 Fisica Moderna – Fis/03 Esperimenti di Fisica – Fis/01 Approssimazione Numerica e Applicazioni – Mat/08 Metodi della Economia Matematica – Mat/05 Metodi Matematici per le Applicazioni – Mat/07</p> <p><i>ogni corso 6 ECTS/CFU – 42 ore</i></p>	18	
	<p><i>2 corsi a scelta tra i seguenti</i> GRUPPO B:</p> <p>Probabilità e Statistica II - mod.I – Mat/06 Geometria Combinatoria – Mat/03 Matematiche Complementari – Mat/04 Equazioni Differenziali – Mat/05 Fondamenti di Geometria – Mat/03 Storie delle Matematiche I – Mat/04 Topologia I – Mat/03</p> <p><i>ogni corso 6 ECTS/CFU – 42 ore</i></p>	12	
Altre attività	Ulteriori Attività Formative	3	
Corsi a libera scelta	<p><i>2 esami a scelta</i> (alcune possibili scelte: Analisi di Fourier – Mat/05 Processi Stocastici ed Equazioni Differenziali Stocastiche – Mat/05 Teoria dei Codici – Mat/03 Teoria della Approssimazione – Mat/05)</p> <p><i>ogni corso 6 ECTS/CFU – 42 ore</i></p>	12	
	Tesi di Laurea	27	
	CFU(ECTS) Totali	120	

Table 2

Study Program of Master Degree in Mathematics
Faculty of Mathematics and Computer Science
Adam Mickiewicz University in Poznań

	Master Degree in Mathematics (Specialization: General Mathematics)	ECTS
Compulsory courses	Functional Analysis	6
	Analytic Functions	6
	Topology	6
	Algebra	5
	Measure and Integral Theory	6
Specialization elective courses: 6 courses chosen from the list	Data Analysis	36
	Harmonic Analysis	
	Algebraic Geometry	
	Stochastic Methods of Financial Mathematics	
	Markow Chains in Insurances	
	Probability Theory 2	
	Partial Differential Equations	
	Selected Problems of Actuarial Mathematics	
Complex Analysis		
Elective courses: 3 courses chosen from the list	Elements of Mathematical Economics	15
	Graph Theory 2	
	Insurance Risk Theory	
	Probabilistic Methods	
	A course freely selected from the university offer	
Other courses/ activities	Selected Problems of Applied Mathematics	2
	Computer Support in the Work od a Mathematician	3
	Foreign Language (two semesters)	4
	M.Sc. Seminar	19
	M.Sc. Exam Preparation	11
	Elements of Entrepreneurship	1
	Emergency Health Services	0
Total ECTS		120

Table 3
Education Exchange Program
Master Degree in Mathematics
to support in Perugia and in Poznań

Study scheme **for a student of the Department of Mathematics and Computer Science of the University of Perugia**
accomplishing Double Degree Studies in Mathematics (2nd degree)
at the University of Perugia and at Adam Mickiewicz University in Poznań

ECTS	St	Recognized in Poznań in lieu of	Corsi completati al 1° anno a Perugia	Recognized in Perugia in lieu of	St	ECTS
6	Com	Functional Analysis	Analisi Funzionale Geometria Differenziale	Analisi Funzionale	Char	9
6	Com	Topology		Geometria Differenziale	Char	9
6	Com	Analytic Functions				
5	Com	Algebra	Algebra Commutativa e Computazionale	Algebra Commutativa e Computazionale	Char	6
5	Ele	Elective Course 1	Metodi della Fisica Matematica	Metodi della Fisica Matematica	Char	6
2	Com	Selected Problems of Applied Mathematics				
6	Spec	Specialization Course 1	Corso A1	Corso dal gruppo A	Rel	6
6	Spec	Specialization Course 2	Corso A2	Corso dal gruppo A	Rel	6
6	Spec	Specialization Course 3	Corso A3	Corso dal gruppo A	Rel	6
6	Spec	Specialization Course 4	Corso B1	Corso dal gruppo B	Rel	6
6	Spec	Specialization Course 5	Corso B2	Corso dal gruppo B	Rel	6
4	Com	Master Seminar 1	Tesi di Laurea	Tesi di Laurea		4
1 st year in Poznań: 64 ECTS				1 st anno in Perugia: 64 ECTS		

ECTS	St	Recognized in Poznań in lieu of	Courses completed at 2 nd year in Poznań	Recognized in Perugia in lieu of	St	ECTS
6	Ele	Algebraic Geometry	Algebraic Geometry	Geometria Algebrica	Char	9
6	Ele	Partial Differential Equations	Partial Differential Equations	Analisi Funzionale Applicata	Char	9
6	Spec	Complex Analysis	Complex Analysis			
6	Com	Measure and Integral Theory	Measure and Integral Theory	Analisi Moderna	FrCh	6
3	Com	Computer Support in the Work of a Mathematician	Computer Support in the Work of a Mathematician	Scelta libera	FrCh	6
1	Com	Elements of Entrepreneurship	Elements of Entrepreneurship			
			Polish Language Course	Ulteriori Attività Formative	Oth	3
2	Com	Foreign Language 1 (Dean's decision)				
2	Com	Foreign Language 2 (Dean's decision)				
0	Com	Emergency and Health Service	Emergency and Health Service			
15	Com	Master Seminar 2, 3 and 4	Master Seminar 2, 3 and 4	Tesi di Laurea		23
11	Com	M.Sc. Exam Preparation	M.Sc. Exam Preparation			
2 nd year in Poznań: 58 ECTS				2 nd anno in Perugia: 56 ECTS		

Total in Poznań: 122 ECTS

Totale in Perugia: 120 ECTS

Description of abbreviations:

- St = Status of a course
- Char = Characteristic Activity
- FrCh = Free Choice Course
- Oth = Other Activity
- Rel = Related Activity
- Com = Compulsory Course
- Spec = Specialization Elective Course
- Ele = Elective Course

Terms describing status of courses in Perugia (Characteristic Activity, Free Choice Course, Other Activity, Related Activity) and in Poznań (Compulsory Course, Specialization Course, Elective Course) are used separately in internal documents of each university. In the present Double Degree Agreement the terms Characteristic Activity and Compulsory Course, Related Activity and Specialization Course, Free Choice Course and Elective Course are pairwise considered as equivalent.

Table 4

Education Exchange Program
Master Degree in Mathematics
to support in Perugia and in Poznań

Study scheme for a student of the Faculty of Mathematics and Computer Science
of Adam Mickiewicz University in Poznań
accomplishing Double Degree Studies in Mathematics (2nd degree)
at Adam Mickiewicz University in Poznań and at the University of Perugia

ECTS	St	Riconosciuti a Perugia	Courses completed at the 1 st year in Poznań	Recognized in Poznań in lieu of	St	ECTS
9	Char	Analisi Funzionale	Functional Analysis	Functional Analysis	Com	6
9	Char	Geometria Differenziale	Topology	Topology	Com	6
			Analytic Functions	Analytic Functions	Com	6
6	Char	Algebra Commutativa e Computazionale	Algebra	Algebra	Com	5
9	Char	Geometria Algebrica	Algebraic Geometry	Algebraic Geometry	Spec	6
9	Char	Analisi Funzionale Applicata	Partial Differential Equations	Partial Differential Equations	Ele	6
			Complex Analysis	Complex Analysis	Spec	6
6	FrCh	Analisi Moderna	Measure and Integral Theory	Measure and Integral Theory	Com	6
6	Char	Metodi della Fisica Matematica	A course on physics at the Faculty of Physics (6 ects)	Selected Problems of Applied Mathematics	Com	6
			Emergency and Health Service	Emergency and Health Service	Com	0
3	Oth	Ulteriori Attività Formaive	Computer Support in the Work of a Mathematician	Computer Support in the Work of a Mathematician	Com	3
			Elements of Entrepreneurship	Elements of Entrepreneurship	Com	1
			Foreign Language 1	Foreign Language 1	Com	2
			Master Seminar 1	Master Seminar 1	Com	4
4		Tesi di Laurea	Master Seminar 2	Master Seminar 2	Com	5
1 st anno in Perugia: 61 ECTS			1 st year in Poznań: 68 ECTS			

ECTS	St	Riconosciuti a Perugia	Corsi completati al 2 ^o anno a Perugia	Recognized in Poznań in lieu of	St	ECTS
				Foreign Language 2 (Dean's decision)	Com	2
6	Rel	Corso A1	Corso A1	Elective Course 2	Ele	5
6	Rel	Corso A2	Corso A2	Elective Course 3	Ele	5
6	Rel	Corso A3	Corso A3	Specialization Course 3	Spec	6
6	FrCh	Corso A4 o Corso a Scelta	Corso A4 o Corso a Scelta	Specialization Course 4	Spec	6
6	Rel	Corso B1	Corso B1	Specialization Course 5	Spec	6
6	Rel	Corso B2	Corso B2	Specialization Course 6	Spec	6
23		Tesi di Laurea	Tesi di Laurea	Master Seminar 3 and 4	Com	10
				M.Sc. Exam Preparation	Com	11
2 ^o anno in Perugia: 59 ECTS			2 nd year in Poznań: 57 ECTS			
Total in Perugia: 120 ECTS			Total in Poznań: 125 ECTS			

Description of abbreviations:

- St = Status of a course
- Char = Characteristic Activity
- FrCh = Free Choice Course
- Oth = Other Activity
- Rel = Related Activity
- Com = Compulsory Course
- Spec = Specialization Elective Course
- Ele = Elective Course

Terms describing status of courses in Perugia (Characteristic Activity, Free Choice Course, Other Activity, Related Activity) and in Poznań (Compulsory Course, Specialization Course, Elective Course) are used separately in internal documents of each university. In the present Double Degree Agreement the terms Characteristic Activity and Compulsory Course, Related Activity and Specialization Course, Free Choice Course and Elective Course are pairwise considered as equivalent.

Table 5

System of credits equalization
with respect to the time commitment

The University of Perugia	Adam Mickiewicz University
1 CFU (ECTS): 25 hours	1 ECTS: 25 hours

Table 6

Grading systems
and their equalization

Italian grading system			Polish grading system	
A	equivalent from/to	30/30 and lode	A	5.0 (bardzo dobry)
B	equivalent from/to	29 /28 /27	B	4.5 (dobry plus)
C	equivalent from/to	26 /25 /24	C	4.0 (dobry)
D	equivalent from/to	23 /22 /21	D	3.5 (dostateczny plus)
E	equivalent from/to	20 /19 /18	E	3.0 (dostateczny)
F (failed)	equivalent from/to	<18	F (failed)	2.0 (niedostateczny)