

course	SSD	Type of activity	language	hrs	credits	year of attendance	optional/mandatory	curriculum
HOMOLOGICAL ALGEBRA	MAT/02 Algebra	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry
MATHEMATICAL THEORIES OF LIQUID CRYSTALS	MAT/07 FISICA MATEMATICA	lesson	English	24	3	1 <sup>st</sup>	optional	Mathematical Physics
ELLIPTIC PDES AND HYPERSURFACE GEOMETRY	MAT/03 GEOMETRIA	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry, Mathematical Analysis
ALGEBRAIC STACKS AND MODULI OF VECTOR BUNDLES	MAT/03 GEOMETRIA	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry
FIBERED VARIETIES	MAT/03 GEOMETRIA	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry
SYMPLECTIC TECHNIQUES IN MATHEMATICAL PHYSICS	MAT/07 FISICA MATEMATICA	lesson	English	24	3	1 <sup>st</sup>	optional	Mathematical Physics
INTRODUZIONE ALL'ANALISI MATEMATICA	MAT/05 ANALISI MATEMATICA	lesson	Italian	24	3	1 <sup>st</sup>	optional	Mathematical Analysis
STOCHASTIC ANALYSIS AND APPLICATIONS	MAT/06 PROBABILITÀ E STATISTICA	lesson	English	24	3	1 <sup>st</sup>	optional	Probability, Statistics and Mathematical Finance
NUMERICAL METHODS FOR PDES	MAT/08 ANALISI NUMERICA	lesson	English	24	3	1 <sup>st</sup>	optional	Numerical Analysis and Mathematical Modelling
NONLOCAL VARIATIONAL PROBLEMS AND NONLINEAR ANALYSIS	MAT/05 ANALISI MATEMATICA	lesson	English	24	3	1 <sup>st</sup>	optional	Mathematical Analysis
EIGENVALUES OF SINGULARLY PERTURBED PROBLEMS	MAT/05 ANALISI MATEMATICA	lesson	English	24	3	1 <sup>st</sup>	optional	Mathematical Analysis
TORIC VARIETIES	MAT/03 GEOMETRIA	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry
AN INTRODUCTION TO HYPERBOLIC GEOMETRY	MAT/03 GEOMETRIA	lesson	English	24	3	1 <sup>st</sup>	optional	Algebra and Geometry
CONSERVATION LAWS AND APPLICATIONS	MAT/05 ANALISI MATEMATICA	lesson	English	24	3	1 <sup>st</sup>	optional	Mathematical Analysis