

2021학년도 교육과정표

수학과(Department of Mathematics)

이수구분	교과목번호	교과목명 (영문명)	학점 (학점-이론-실습)	비고
전공	MA76596	가환대수 (Commutative Algebra)	3-3-0	석·박사 공용 교과목군
	MA73264	고급군론 (Advanced Group Theory)	3-3-0	
	MA73260	극소곡면론 (Minimal Surface Theory)	3-3-0	
	MA68418	금융수학(I) (Financial Mathematics(I))	3-3-0	
	MA68423	금융시장론 (Financial Markets Theory)	3-3-0	
	MA76595	기하군론 (Geometric Group Theory)	3-3-0	
	MA70173	기하위상수학 (Geometric Topology)	3-3-0	
	MA73262	기하학특강 (Topics in Geometry)	3-3-0	
	MA73261	기하해석학 (Geometric Analysis)	3-3-0	
	MA70174	다변수복소함수론 (Several Complex Variables)	3-3-0	
	MA76593	대수곡선론 (Algebraic Curves)	3-3-0	
	MA76439	대수기하학특강 (Topics in Algebraic Geometry)	3-3-0	
	MA68517	대수적위상수학 (Algebraic Topology)	3-3-0	
	MA76594	대수학특강 (Topics in Algebra)	3-3-0	
	MA76603	딥러닝및인공지능 (Deep Learning and Artificial Intelligence)	3-3-0	
	MA76441	리만곡면론 (Riemann Surface Theory)	3-3-0	
	MA73259	리만기하학 (Riemannian Geometry)	3-3-0	
	MA76592	리만기하학특강 (Topics in Riemannian Geometry)	3-3-0	
	MA73315	매듭론 (Knot Theory)	3-3-0	
	MA73316	매듭의응용 (Applications of Knot Theory)	3-3-0	
	MA76604	머신러닝개론 (Introduction to Machine Learning)	3-3-0	
	MA76591	미분다양체론 (Differentiable Manifolds)	3-3-0	
	MA73324	미분위상수학 (Differential Topology)	3-3-0	
	MA76598	변분법 (Calculus of Variations)	3-3-0	
	MA68420	보험수학(I) (Actuarial Mathematics(I))	3-3-0	
	MA68537	복소기하학 (Complex Geometry)	3-3-0	
	MA76440	복소기하학특강 (Topics in Complex Geometry)	3-3-0	
	MA70180	복소다양체론 (Theory of Complex Manifolds)	3-3-0	
	MA68539	복소단위구상의함수론 (Function Theory in the Complex Unit Ball)	3-3-0	
	MA73284	복소작용소론 (Complex Operator Theory)	3-3-0	
	MA68518	복소해석학 (Complex Analysis)	3-3-0	
	MA76588	복소해석학특강 (Topics in Complex Analysis)	3-3-0	

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전공	수학 전공	MA73286 비선형미분방정식론 (Nonlinear Differential Equations)	3-3-0	석·박사 공 용 교과목군
		MA73288 비선형해석학 (Nonlinear Analysis)	3-3-0	
		MA76589 사교기하학 (Symplectic Geometry)	3-3-0	
		MA76600 사교위상수학 (Symplectic Topology)	3-3-0	
		MA70184 상미분방정식론 (Ordinary Differential Equations)	3-3-0	
		MA73272 생물수학 (Mathematical Biology)	3-3-0	
		MA76602 수학적최적화이론 (Mathematical Optimization Theory)	3-3-0	
		MA68520 실해석학 (Real Analysis)	3-3-0	
		MA73327 위상수학특강 (Topics in Topology)	3-3-0	
		MA74997 응용수치해석학 (Applied Numerical Analysis)	3-3-0	
		MA73305 응용수학특강 (Topics in Applied Mathematics)	3-3-0	
		MA70186 응용해석학 (Applied Analysis)	3-3-0	
		MA73451 일반위상수학 (General Topology)	3-3-0	
		MA73325 저차원다양체론 (Low Dimensional Manifold Theory)	3-3-0	
		MA70188 제어이론 (Control Theory)	3-3-0	
		MA76597 최적상태및모수추정이론 (Optimal State and Parameter Estimation Theory)	3-3-0	
		MA70170 추상대수학 (Abstract Algebra)	3-3-0	
		MA76590 코호몰로지론 (Cohomology Theory)	3-3-0	
		MA70171 편미분방정식론 (Partial Differential Equations)	3-3-0	
		MA76599 편미분방정식특강 (Topics in Partial Differential Equations)	3-3-0	
		MA68524 함수해석학 (Functional Analysis)	3-3-0	
		MA76438 해석학특강 (Topics in Analysis)	3-3-0	
		MA68534 행렬계산론 (Matrix Computations)	3-3-0	
		MA73271 행렬함수론 (Matrix Functions)	3-3-0	
		MA70192 호모토피론 (Homotopy)	3-3-0	
		MA76601 호몰로지대수 (Homological Algebra)	3-3-0	
		MA70193 확률과정론 (Stochastic Processes)	3-3-0	
		MA66325 확률론특강 (Topics in Probability Theory)	3-3-0	
		MA70194 확률미분방정식 (Stochastic Differential Equations)	3-3-0	
		MA62888 논문연구 (Thesis Research)	3-3-0	

■ 영역별 수료학점

학과(부)명		전공선택	논문연구	수료학점
수학과	석사	18학점 이상	6학점	24학점 이상
	박사	27학점 이상	9학점	36학점 이상
	석·박 통합	48학점 이상	12학점	60학점 이상