

2018학년도 1학기 교수계획표

[illegible]

교재 및 참고도서	주교재	Introduction to Linear Algebra, Author: 수학교재편찬위원회, Publishing Year: 2014, Publisher, 교우사
	부교재1	Linear Algebra with applications, BY George Nakos and David Joyner, Brooks/Cole Publ.
	부교재2	Linear Algebra-Schaum's Series, by Seymour Lipschutz, McGraw-Hill Publ.
	부교재3	
	지정도서	
	관련Web	

주별계획

주차	강의 내용	과제, 설계 및 실험 내용
제1주	Matrix and linear equations	
제2주	Elementary matrix, inverse matrix	
제3주	Determinants, Vector space	Major exercises in Chapter 1
제4주	Vector space, Subspace	
제5주	Linear independence and linear dependence, Basis and dimension	
제6주	Basis and dimension, Row space and column space	Major exercises in Chapter 2
제7주	Linear transformation	
제8주	Survey(first half of semester), Mid-term Exam	
제9주	Matrix representation of linear transformation, Change of basis	
제10주	Eigenvalue and eigenvector	Major exercises in Chapter 3
제11주	Diagonalization, inner product space and normed	
제12주	Inner product space and normed space, Orthogonal set	Major exercises in Chapter 4
제13주	Gram-Schmidt orthogonalization, QR decomposition	
제14주	Least square solution, Linear differential equation	Major exercises in Chapter 5
제15주	Survey(second half of semester), Final Exam	