

	Lecture Monday 10:15-11:45	Seminar Monday 12:15-13:45
04.szept	Gauss elimination, vector spaces, linear independence, basis, basis transzform, linear transformation	
11.szept	eigenvalues, eigenvectors, scalar product, orthogonal matrices, symmetric matrices, determinant	Linear algebra I
18.szept	Cramer rule, Gauss-Jordan elimination, trace, fundamental subspaces, dimension theorems	
25.szept	orthogonal projections, positive definit matrices, singular values	Linear algebra II
02.okt	polar decomposition, spectral decomposition; partial differential equations, Fourier-series, sine Fourier-series	
09.okt	vibrating string, Bernoulli solution, D'Alambert's solution	partial differential equation, vibrating string
16.okt	Heat equation, infinite length rod	
23.okt	National holiday	National holiday
30.okt	midterm test	
06.nov	vector analysis, line integral, conservative fields	partial differential equation, heat equation
13.nov	Curl-test on plane, on space, potential function	
20.nov	extra midterm test	vectoranalysis, line intergrals
27.nov	surface integrals, Gauss theorem, Stokes theorem	
04.dec	Green theorem, surfaces	vectoranalysis,surface integrals