	Lecture Monday 10:15-11:45	Practical course Monday 12:15-13:45
1st week	Gauss elemination, vector spaces, linear independence, basis,	
2nd week	basis transzform, linear transformation, determinant	Linear algebra I
3rd week	eigenvalues, eigenvectors, scalar product, orthogonal matrices, symmetric matrices, Gram-Schmidt orthogonalization,	
4th week	trace, quadratic form, Gauss-Jordan elemination,	Linear algebra II
5th week	fundamental subspaces, dimension theorems, orthogonal projections,	
6th week	method of smallest squares, positive definit matrices, singular values, polar decomposition, spectral decomposition,	Linear algebra III
7th week	midterm test	
8th week	sine Fourier-series, vibrating string, Bernoulli solution,	Partial diff. eq. I
9th week	D'Alambert's solution, infinite length rod, Heat equation	
10th week	vector analysis, line integral, conservative fields,	Partial diff. eq. II
11th week	Curl-test on plane, on space, potential function, surface integrals,	
12th week	Gauss theorem, Stokes theorem	vectoranalysis I
13th week	Green theorem, surfaces	
14th week	Extra practice	vectoranalysis II

Retaken midterm