

	Lecture Tuesday 10:15-11:45		Practical Course Thursday 10:15-11:45	
03.09.2024	Intro examples, combinatorics, event space, measures	05.09.2024	Combinatorics, event space	
10.09.2024	Basics of probability, Sieve formula, discrete uniform distribution	12.09.2024	Sieve formula, uniform distribution,	
17.09.2024		19.09.2024	conditional probability, independence, Bayes' Theorem	
24.09.2024	Conditional probability, Bayes' Theorem, independence, Independent experiments, conditional independence,	26.09.2024	Discrete random variables: Binomial, Expected value, variance,	
01.10.2024	random variables, discrete distributions (Binomial, geometric), Expected value, properties, variance, examples,	03.10.2024	Discrete random variables: Poisson dist, Poisson process, approx POI with BIN, neg. Binomial, hypergeom,	
08.10.2024	Poisson distribution, approximation of POI, Poisson process, negative binomial, hypergeometric dist.,	10.10.2024	distribution function, density function, uniform dist. Normal dist,	1st midterm
15.10.2024	Distribution function, absolute cont. Dist., density function, uniform distribution,	17.10.2024	Exponential dist., Cauchy dist, transforms, exponetnial dist.,	
22.10.2024	Normal distribution, exponential dist., moments, renewal, Cauchy	24.10.2024	de Moivre-Laplace,	retaken 1st midterm
29.10.2024	De Moivre-Laplace, Stirling,	31.10.2024	higher dimensional distributions, Poisson process again	
05.11.2024	jointly distrinuted random variables, transformations, marginals, Buffon-needle problem, konvolution, sum of normal dist., higher dimensional dist, densities,	07.11.2024	convolution, conditional distribution, conditional expectation	
12.11.2024	covariance, variance of sum, Cauchy-Schwartz, correlation, conditional expectation, exp. connection with POI	14.11.2024	convariance, correlation, exp. Value and variance of sums	
19.11.2024	application of cond. Expectation, estimations,	21.11.2024		2nd midterm
26.11.2024	Markov, Chebisev inequalities, Steiner's Theorem,	28.11.2024	higher dimensional normal dist. And correlations	
03.12.2024	Weak law of large numbers, moment-generating function, Central Limit Theorem,	05.12.2024	practice	retaken 2nd midterm
