

## 18.465 SCHEDULE AND SYLLABUS, SPRING 2015

R. Dudley, E18-412, rmd@math.mit.edu

No office hours are planned; instead, you are encouraged to ask me any questions by email. If possible and appropriate I will answer to the class.

Course website: [www-math.mit.edu/~rmd/465](http://www-math.mit.edu/~rmd/465)

Text: *Modern Applied Statistics with S* by W. N. Venables and B. D. Ripley, Fourth Ed., Springer, 2002.

Lecture dates	Prob. set due	Material	other
Feb. 4,6,9,11	Fri., Feb. 13	Kolmogorov–Smirnov, Mann–Whitney tests	
Feb. 13,17,18	Fri., Feb. 20	Testing normality	
Feb. 20,23,25	Friday, Feb. 27	Testing unimodality	
Feb. 27, Mar. 2,4	Fri., Mar. 6	The dip test, continued	
Mar. 6,9,11	Fri., Mar. 13	The bootstrap	
Wednesday, Mar. 18			review
Friday, Mar. 20			midterm exam
Mar. 23–27			Spring break
Mar. 16,30, Apr. 1	Fri., Apr. 3	Hierarchical clustering	
Apr. 3,6,8	Fri., Apr. 10	Testing multiple hypotheses	
Apr. 10,13,15	Fri., Apr. 17	Markov chain Monte Carlo	
Apr. 17,22, 24, 27	Wed., Apr. 29	Simulated annealing	
Wednesday, May 6			review
Friday, May 8			2d-half exam
Apr. 29, May 1, 4, 11	Wed., May 13	EM algorithms	
			No final exam

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*Date:* 18.465, REVISED April 15, 2015.