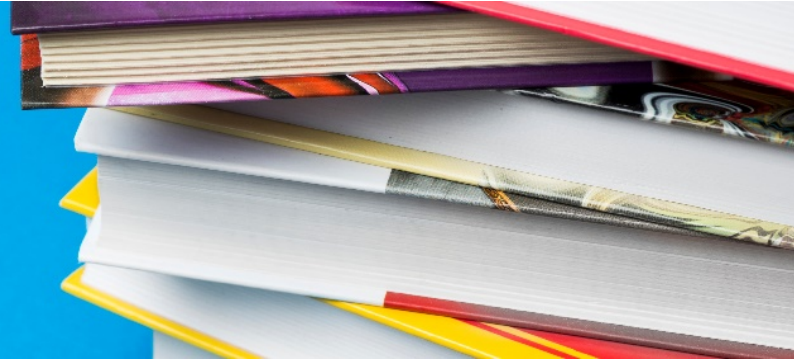# Full Syllabus

Course Title
Statistical Principles in Experiments

Lecturer
Dr. Sigal Levy

Semester
B 2021

Course requirements
-No preliminary requirements
-Passing grade in the final exam

Final grade components
Final exam – 100%

Course schedule

| Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
1-2	Descriptive statistics
3	The Normal distribution
4-5	Principles of statistical inference
6	t-tests
7	Non-parametric tests
7 cont'd	Power and sample size considerations
8-9	Analysis of variance tests
10	Correlations and independence
11-12	Linear regression
13	Logistic regression

Required course reading
Non

Optional course reading

❖ Watt, T. A., McCleery, R. H., & Hart, T. (2007). Introduction to statistics for biology. CRC Press.
❖ Quinn, G. P., & Keough, M. J. (2002). Experimental design and data analysis for biologists. Cambridge University Press.
❖ Van Emden, H. (2012). Statistics for terrified biologists. John Wiley & Sons.

Comments
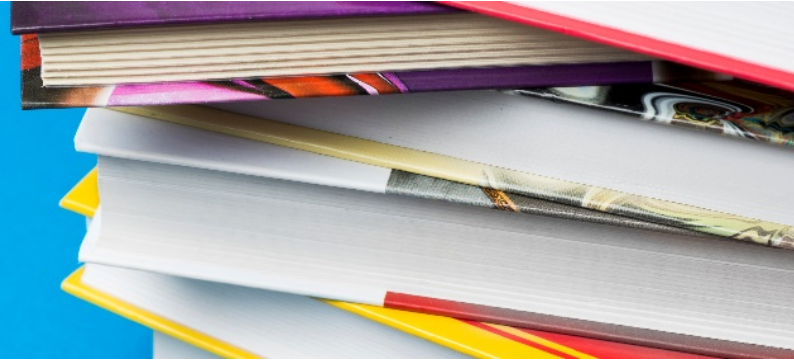
Class attendance is not mandatory but is highly recommended. The online course material (presentations) does not necessarily cover all the required material.