



# Full Syllabus



## Course Title

Statistical Principles in Experiments

## Lecturer

Dr. Sigal Levy

## Semester

B 2022

## 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



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Class attendance is not mandatory but is highly recommended. The online course material (presentations) does not necessarily cover all the required material. Lecture recordings will be made available on the course website.