



# Course program and reading list

Semester 2 Year 2021

**School:** Baruch Ivcher School of Psychology

## Introduction To Statistics B

### Lecturer:

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### Teaching Assistant:

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<b>Course No.:</b>	<b>Course Type :</b>	<b>Weekly Hours :</b>	<b>Credit:</b>
8911	Lecture	2	3.5

<b>Course Requirements :</b>	<b>Group Code :</b>	<b>Language:</b>
Final Exam	212891110	English

### Prerequisites

#### Prerequisite:

8910 - Introduction To Statistics A

**Students who took one of the courses listed below will not be allowed to register to the course Introduction To Statistics B (8911):**

8004 - Introduction To Statistics

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**Course Description**

The course will focus on basic concepts of Statistical Inference and the ways researchers generalize findings from a specific sample to the population from which this sample is drawn. Students will learn to perform and analyze simple statistical tests, such as Chi Square test, Z test, T test, and one-way analysis of variance

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**Course Goals**

<b>Semester B</b>	
1-2	Sampling methods, the sampling distribution, random sample, central limit theorem
3-5	Hypothesis testing (one-tailed and two-tailed), type I & type II errors (a,b), power, effect size, a priori and a posteriori alpha, one sample Z test
6-7	One sample T test; biased (S) and unbiased estimation ( $\hat{S}$ )
8-10	Independent and dependent samples t-test
11-12	One-way Analysis of Variance (ANOVA), Post-hoc tests
13	Summary: inferential statistics

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**Grading**

10% - Weekly homework assignments: passing grade on at least 9 assignments.

15% - 3 quizzes.



## Reading List

Gravetter, F.J., & Wallnau, L.B. (2008). *Statistics for the Behavioral Sciences* (7th edition). Wadsworth, Thomson Learning.

Field, A. (2009). *Discovering Statistics Using SPSS* (third edition). London: Sage publications.