Course title: Experimental Design, data sampling and statistical analysis

Course number: 221.4020

Course credits: 4

Name of the lecturer: Nir Sapir

Name of instructors: Inbal Schekler, Neta Sa’ar

Office hours: Appointments should be made in advance - please contact by e-mail

Requirements: Weekly exercise, final exam, participation in all lessons and field excursions

E-mails:

Nir Sapir: nirs@sci.haifa.ac.il
Inbal Schekler: goldinbal@gmail.com
Neta Sa’ar: netasaar@gmail.com

Attendance: Obligatory

Prerequisites: Introduction to Statistics

Course program: How to plan a study by asking good scientific questions, the basics of sampling design, sampling from a population, measuring biotic and abiotic factors, measures of central tendency and dispersion, normality, fit data to distributions, Basic regression, t-tests, ANOVAs and ANCOVA, Goodness of fit, multiple regression, logistic regression, estimate population size, spatial distribution, richness and diversity.

Basis of final grades: Final Exam (60%), Excerices (40%).

Bibliography: