

Basic Programming for Geological and Environmental Sciences 206.1.2341

Teacher: Liran Goren, gorenl@bgu.ac.il, Room 233, Building 58

Course structure:

Lectures – 1hr/w

Practicals - 2hr/w (one hour of frontal tutoring and one hour of guided class exercises).

Office hours and communication:

Office hours of Liran Goren: Thursdays between 16:00 – 18:00.

The T/As will announce their weekly office hours during or immediately following a practical session.

Teaching material, assignments, and messages will be posted on the course Moodle website.

Evaluation:

Weekly programming assignments - 25%. Mandatory submission of 80% of the programming homework assignments.

Mid semester quiz – 20%

Final exam – 55%

Passing the course is conditioned by a pass grade in the exam.

Literature:

MATLAB help pages and material that will be posted in Moodle.

Course topics:

The Matlab environment, variables and simple arithmetic calculations, introduction to programming and the concept of algorithms, vectors and matrices, scripts and functions, loops and conditions, plotting and visualizing data, root finding, curve fitting, interpolation and extrapolation, numerical differentiation and integration.