

Introduction to Dynamic Geology 206-11041 - 3.5 credits

Dr. Tsesarsky Michael

Syllabus

Earth as a dynamic system. Earthquakes, seismology and the internal structure of Earth. Gravity, isostasy, magnetism on land and on the sea floor. Deformation of rocks. Continental drift and plate tectonics.

Bibliography

Brown G. C. and A. E. Mussett, George, The inaccessible earth, by Allen & Unwin, London. 1981, 218 pp.

Holmes, A. Principles of Physical Geology, Nelson, London, 1954, 11 ed. 532 p.

Keary, P. and Vine, F., Global Tectonics, Blackwell Science, 2nd ed., 1996, 302pp.

Mussett, M; Khan, M. A., Looking into the Earth : An Introduction to Geological Geophysics. Cambridge University Press. 2000, 480 pp.

Press, F. & Siever, R.: Earth; 3rd ed. W.H. Freeman and Comp., San Francisco 1982, 613 pp.

פלכסר, אקדמון

Course Requirements

Prerequisites: Introduction to Minerals and Rocks

2 hrs lecture

2 lab

2 day excursion

The course is composed of weekly lectures and exercises and two days of excursion.