

Introduction to Algebra (BMA-LOTD-104.01.)

Judit Madarász

ii/224, Monday 12:00-13:30

This course is a brief introduction to abstract algebra. Mostly we will concentrate on algebraic structures with a single binary operation, with a lot of examples. Topics we will also touch on include lattice theory, theory of Boolean algebras, and elements of universal algebra.

Homework will be assigned and collected regularly. The grade will be based on homework.

Requirements: Regular class attendance and submitting homework regularly.

Selected bibliography:

Ivo Düntsch and Günther Gediga, Sets, Relations, Functions, Methodos Publishers (UK), 2000,

<http://www.cosc.brocku.ca/~duentsch/archive/methprimer1.pdf>

Seth Warner, Modern Algebra, Dover Books on Mathematics, 1990.

Stanley N. Burris and H.P. Sankappanavar, A Course in Universal Algebra, The Millennium Edition,

<http://www.math.uwaterloo.ca/~snburris/htdocs/UALG/univ-algebra2012.pdf>

(In Hungarian: Bevezetés az univerzális algebrába, Tankönyvkiadó, 1988.)

Maurer I. Gyula és Virág Imre, A relációelmélet elemei, Dacia, Kolozsvár, 1972.