

41002 Introduction to Modern Algebra II (3)

Knowledge

The students should continue learning the material of MATH 41001 through emphasizing properties of rings, their ideals, polynomial ring extensions, fields.

Comprehension

Should understand the finite degree extensions, roots of polynomials, constructability.

Application

The main and most important application is to solve many different problems related to the subject.

Analysis

Should be able to understand the material on a higher level of mathematical education to prepare themselves (if necessary) to the graduate school.

Synthesis

Should extensively exercise the abstract thinking.

Evaluation

Should complete homeworks, pass midterm tests and a final exam.

Class Activities

To solve problems in class and discuss theorems.

Out of class Activities

To submit homework assignments.