

Course Number: MTH G311  
Credit Hours: 4  
Course Title: Commutative Algebra

Text: Commutative Ring Theory, Hideyuki Matsumura, Cambridge studies in advanced mathematics, 8

Course Description:

The lectures will cover most of the topics from the textbook: Prime ideals, Localization, Integral extensions, Primary decomposition, Krull dimension, Dimension theory, Regular sequences, Gorenstein rings, Regular rings, Complete intersection rings, Derivations, Complete local rings, necessary homological algebra.

Class Meetings:

Tuesday and Thursday 5:50-7:20, 215 RY (might be changed, depending on students in the class)

Additional meetings will be scheduled for the discussions of the exercise problems.

Grade:

Grades will be based on HW and discussions.