PMATH 945: RINGS AND THEIR APPLICATIONS

Description

We'll cover the Jacobson density theorem, the Artin-Wedderburn structure theorem for Artinian rings, the Jacobson radical, Goldie's theorem and noncommutative localization, PI theory, Gelfand-Kirillov dimension, the Golod-Shafarevich theorem, Brauer groups and their cohomological description, and possibly other topics. This will be at the level of a 4th year undergraduate class/1st year graduate class.