SYLLABUS FOR MATH 7262 ALGEBRAIC THEORY II, SPRING TERM 2020

Instructor: Associate Professor Dr. David J. Grynkiewicz
University email: djgrynkw
Office: Dunn Hall 367
Office Hours: MWF 10:15 – 11:15 and by appointment
Website: www.diambri.org/AlgII

Class Meeting Times: MWF   11:30 – 12:25
Room: Dunn Hall 231
Final: Monday 05/04/2020   10:30 – 12:30

Textbook: We will use material from *Abstract Algebra* by Dummitt and Foote, *Algebra* by Lang, and algebra by *Hungerford*

Course Summary: This is the 2nd part of a demanding course designed to introduce Ph.D students to the beginnings of higher level abstract algebra. The course should help prepare students for the Ph.D qualifying exam in Algebra at the university of Memphis. Students who find themselves struggling should seek aid, form fellow students or during office hours, early on. Topics covered will be Modules and Galois Theory. A solid background in undergraduate group theory is assumed.

Grading Scheme: Grades will be based upon Homework Average (20%), a mid-term (30%) and a Final Exam (50%). Homework will be assigned every one to two weeks. Students may discuss the homework problems with other students, but each student must write up the solution independently in their own words. Simply transcribing someone else's solution can have serious consequences.