Salisbury University Department of Mathematical Sciences
MATH 442/562 : Abstract Algebra II
Syllabus (Tentative)

Description: Modern abstract algebra including such topics as rings, polynomials and elds. Other topics may include algebraic coding, Boolean algebras, symmetry and mathematical crystallography, applications of nite elds to computer science. 4 Hours Credit: Meets four hours per week.

Prerequisites: C or better in MATH 441.

Intended Audience: All majors in the mathematical sciences and any students who wish to pursue graduate study in mathematics or its applications, physics or computer science.

Objective: To develop the foundations for modern algebra. The primary focus will be on constructing proofs and writing in mathematics. The standard theory of a second semester algebra course will be presented.

Textbooks: *Abstract Algebra: An Introduction*, 3rd Edition by Thomas W. Hungerford

   Topic