Introduction to Galois Theory

This course is designed to teach the basic results of Galois Theory – the fundamental theorem of Galois Theory, insolvability of the quintic polynomials, characterization of polynomials by radicals, computation of Galois groups of polynomials of small degree, and some Inverse Galois Problems, as well as applications of Galois theory.

by J. Rotman (Springer University Text)

Additional Textbook (Optional):  *Generic Polynomials*  
by C. U. Jensen, A. Ledet and N. Yui  
(Cambridge University Press)

Prerequisite:  MATH-313*.

Instructor:  N. Yui

Evaluation:  
- 3 Assignments  40%
- Midterm  20%
- Projects  40%

Projects will be assigned to all students. You can choose to do the assigned project in group (consisting of up to two students), or alone.

You are asked to give oral presentation of the project in class, and hand in written-up version of the project. The presentations will be scheduled after the February break.

Projects will be worth 40% of the total mark.