Course Description

Department of Mathematics

Nature of the course ☐ required **x** ☐ elective	Area ☑ Algebra ☐ Analysis ☐ Geometry ☐ Statistics ☐ Applied Mathematics ☐ Discrete Mathematics ☐ Others			
Calculus ☐ Calculus A ☐ Calculus B				
Course number	221 U4670	Section number	Number of credits	3
Course title	Topics in algebra (代數特論)			
Instructor	康明昌			

Contents： We will discuss the basic notions of etale cohomology. In particular, we try to cover Part I of Milne's lecture notes (Basic theory) in this course.

I.   Course prerequisite： Algebra, Riemann surfaces, commutative algebra, sheaf cohomology

II. Reference material (textbook(s))：

Milne, Lectures in etale cohomology

M. Artin and Verdier, Seminar on etale cohomology of number fields, Woods Hole

Milne, Etale cohomology, Princeton University Press

(The first two references can be downloaded from Milne's homepage at http:www.jmilne.org/math/)

III. Time： Thurday (9:10 – 12:00)

IV. Grading scheme : Attendance and quizes