

Course Title: Topics in Algebraic Number Theory
Course #: 87000
Day(s), Time & Location: Thursdays, 2PM-4PM, room 5417
Instructor Name: Victor Kolyvagin
Contact Information: VKolyvagin@gc.cuny.edu
Pre-Requisites: _____
Office Hours: Thursdays, 1PM-2PM

Description: The arithmetic of elliptic curves over number fields will be studied in the course.
 Main topics will include:
 Selmer-type groups, their applications to the study of arithmetic of elliptic curves, with special consideration of elliptic curves associated to the congruent numbers.
 Preparations to the study of the method of Euler Systems for bounding of Selmer groups, with applications to the Birch-Swinnerton-Dyer conjecture for elliptic curves.
 There is no particular text book to be used.