



Speaker: Carl Jockusch
UIUC

Thursday, March 6, 2014
2:00 PM
125 Hayes-Healy Hall

Title: Notions of imperfect computability and Turing degrees

Abstract:

I will consider algorithms which may occasionally fail to converge or may occasionally give incorrect results. The notion of "occasionally" is made precise using asymptotic density. I will define various notions of imperfect computability in this framework and consider the Turing degrees of sets which enjoy various Boolean combinations of these notions. The talk is aimed at listeners who are familiar with basic notions of computability theory, but no prior knowledge of asymptotic density is assumed.