Math 595 RZF, TR 11:00-12:20, room 141 Altgeld Hall

In this course we will discuss ideas in analytic number theory centered on $L$–functions and their applications. The first part of the course will cover classical material focussing on the Riemann zeta function and Dirichlet $L$–functions. For this part we will follow selected chapters from Davenport’s book and from Titchmarsh’s book. In the last part of the course we will study some recent papers on the distribution of zeros of the Riemann zeta function and more general $L$–functions.

Prerequisite: MATH 531.

Recommended Textbooks:


There will be no exams. Students registered for this course will be expected to give a lecture on some topic related to the content of the course. In addition some homework problems will be assigned.

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