MATH 5305 Real Analysis I. Three semester hours.

This is a course on Lebesgue measure and integration. The classical Lp spaces will be defined and basic results established, such as the Holder and Minkowski inequalities and completeness of the spaces. Prerequisite: knowledge equivalent to MATH 3310, and MATH 4335 Graduate standing and permission of instructor.

Justification: To make the prerequisite more specific for MATH 5305.