

PMATH 945: Sheaves and Homological Algebra
Winter 2027

Professor: Ben Webster

Email: ben.webster

Course Description: The first half of the course will review the basics of homological algebra focusing on the example of categories of sheaves. In the second half, we will discuss derived categories and their applications.

Prerequisites: PMATH 446 and 467. Having taken PMATH 945 (Topics in Algebra: Category Theory and Homological Algebra) in W26 would be ideal. Students should understand the basics of categories, topology (preferably some algebraic topology), and modules over rings.