

Math 515-2: sheaves

Benjamin Antieau

Spring 2026

When: 1100-1150 MWF.

Where: Tech M166.

Office hours: 1200-1300 W in Lunt Hall 304.

Texts: *Sheaves on manifolds* by Krause, Nikolaus, and Pützstück; *Six-functor formalisms* by Scholze.

Coursework: attending lectures and office hours, reading, problem sets.

Exams: none.

Goal. We will work to understand Efimov's computation of the continuous K -theory of ∞ -categories of sheaves on topological spaces.

Evaluation. Problem sets will be collected in class. I will provide feedback in the form of written comments on all submitted problem sets. The grade for this course will be assigned based on a self-evaluation each student will submit via email by 1700 on Monday 6/8. This one-paragraph document will explain the work they carried out during the quarter and give their assessment of the grade earned. Further guidelines will be given in class.

DEPARTMENT OF MATHEMATICS, NORTHWESTERN UNIVERSITY
antieau@northwestern.edu