

PMATH 940 Winter 2026

Fermat's Last Theorem

Course description:

- Moduli space of elliptic curves.
- Galois representations attached to elliptic curves and modular forms.
- Deformation theory of Galois representations.
- Modularity lifting.

Prerequisites:

- Basic arithmetic of elliptic curves.
- General results about local fields.
- General representation theory.

A reading course covering some of the basics of elliptic curves and local fields will be run in Fall 2025.