

ARCH 454/554 Vertical Design Studio

Instructor: Andrea A. Dutto

DESIGN WITH LOGS

Goal of this vertical studio

is to design a **FOREST SCIENCE RESEARCH LABORATORY** constructed, decorated, and furnished with logs.

Ranger stations will be studied as precedents, serving as the foundation for the research lab's typological evolution. The first phase of the studio, known as "the knowledge phase," will focus on analyzing and documenting log-built ranger stations. This

process will establish a baseline for considerations of form, location, and logistics.

Expanding the analyzed ranger stations into a research lab—designed as a complex, well-equipped facility capable of accommodating various functions—will be the focus of the studio's second phase.

Typological charts will illustrate how log construction can be structured into building components and floorplan configurations. Key to this studio is understanding how construction

challenges can evolve into architectural design problems.

Individually, each participant will choose a case study, conduct surveys, collect data, and develop a unique design solution, supported by multiple physical models.

Idaho's forests—recognized as both natural and inhabited, as well as intentionally designed domain—will serve as the contextual foundation for the studio's development.