WHAT IS CAMPUS AS LAB?

CAL is research and learning that uses the social and physical dimensions of campus for sustainability research and learning, using three measures:

- **Student experience**: Are students engaging with real-world problems?
- **Campus impact**: Are projects advancing sustainability goals of our institution?
- **Replicability**: Are we producing knowledge and methods that others can use to solve global challenges?

CAL ACTIVITY SUMMARY

### 46 CAL ACTIVITIES ACTIVE OR COMPLETE

Data represent tracked CAL activities including courses coursework and faculty and student research. Most CAL projects straddle multiple disciplines.

#### DISCIPLINES OF CAL ACTIVITIES

- **Engineering**: 39%
- **Natural Science**: 27%
- **Humanities**: 27%
- **Social Sciences**: 7%

#### TOPICS OF CAL ACTIVITIES

- **Waste**: 20
- **GHGs**: 15
- **Food**: 10
- **Habitat**: 5
- **Communications**: 1
- **Water**: 0

RESEARCH HIGHLIGHTS:

- **Paul Gauthier’s Princeton Vertical Farming Project (PVFP)**, led to two Senior Theses. Jesenia Haynes ’18 discovered PVFP uses 1/6 the water of a conventional farm, and Aamir Zainulabadeen ’18 automated data collection, optimizing yield.

- **Artemis Eyster ’19 led the student-initiated seminar, Analyzing Ecological Integrity**. The course provided recommendations to campus planners about preserving naturalized areas of campus as the university expands.

- **For her Senior Thesis, Cecilia Shang ’18 applied choice architecture to demonstrate how to reduce meat consumption in University dining halls**.

- **Gáspár Bakos conducted an aerial flyover of campus at night to analyze light pollution. The results of his study were incorporated into campus planning tools to assess land use and ecological health on campus**.

TYPES OF CAL ENGAGEMENT:

- **5 Courses** dedicated to CAL
- **9 Active faculty research projects**
- **15 student-generated coursework projects**
- **3 Course field trips**
- **3 Senior Thesis projects**
- **1 Masters’ Thesis**

https://sustain.princeton.edu/lab