

CAMPUS LIVING LABORATORY INITIATIVE (ICJS)



PROJECT DESCRIPTION

Use the campus as a laboratory to perform projects related to sustainable living and operations such as stormwater, composting, gardening, biodiversity, and energy efficiency. Take existing operations and incorporate them into academics. This project will foster a sustainable community by involving students and faculty in a hands-on approach to sustainable practices on campus.

PROJECT UPDATES

Projects involving stormwater infrastructure and other green infrastructure are ongoing. Projects related to campus biodiversity will be initiated in 2021.

PROJECT OUTCOMES

- Provide reminders of sustainability in the campus landscape

AFFECTED METRICS



Metric	Metric Description	2021 Key Result
6.2	Average efficiency of green and best management practice (BMP) infrastructure in terms of reducing peak flow. This includes raingardens, constructed wetlands, and green roofs.	Measure the peak stormwater discharge from campus.
11.1	Proportion of non-utility and non-maintenance projects that have stakeholder input from students, faculty, and staff.	Develop a goal to plant a certain number of native plants.
11.4	Percentage of campus managed under sustainable landscape management practices.	Assess the load of pollutants in Villanova's waste water and storm water runoff.
14.1	Annual mass of nitrogen and phosphorus used in fertilizer on campus.	Assess the load of pollutants in Villanova's runoff.

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AFFECTED METRICS *(CONTINUED)*



Metric	Metric Description	2021 Key Result
14.4	Average efficiency of green and best management practice (BMP) infrastructure in terms of reducing pollutant loads. This includes raingardens, constructed wetlands, and green roofs.	
15.1	Carbon sequestered per year by Villanova's campus ecosystem.	Measure the total mass of carbon captured by biomass on campus.
15.2	Portion of campus considered Green space and/or covered by trees. Includes green roofs.	Develop a comprehensive report of Villanova's campus biodiversity.
15.3	Proportion of campus biosphere considered to be an alien or invasive species.	Develop a comprehensive report of Villanova's campus biodiversity.
15.4	Percentage of campus managed under sustainable landscape management practices or an equivalent third party certification.	