



### Abstract

Compositing is a natural decomposition process in which organic wastes decompose into a nutritious soil amendment. Nutrients in organic wastes such as food scraps (primarily fruits and vegetables), as well as shredded paper and cardboard for carbon addition, can be recovered and recycled for use in agriculture, horticulture and urban gardening. When food scraps are disposed in landfills, they produce sizable amounts of harmful methane gas because they undergo anaerobic decomposition. Composting solves this issue by allowing plenty of oxygen into the system through consistent turning, which reduces methane emissions. Not only does compost enrich the soils with organic matter and improve water retention, it also significantly reduces landfill disposal of organic waste and demand for commercial fertilizers, thereby reducing society's reliance on fossil fuels and paving the path toward a sustainable future. The Student Compost Cooperative (SCC) is a cross-disciplinary education and outreach program established by the Soil and Water Sciences Department, UF-IFAS, that fosters sustainability and nutrient upcycling through compositing and sustainable gardening. The SCC strives to popularize sustainability and compositing through educational demonstrations and social media. The SCC also provides free garden plots for students at the *BioEnergy and Sustainable* Technology (BEST) Laboratory, and encourages them to compost their food waste and use the finished product for their own organic gardens. All students and staff are invited to participate in the SCC to make the UF campus a more sustainable community.

## Introduction

The Student Compost Cooperative (SCC) is a student-run program that encourages composting through outreach and provides hands-on learning experiences with compost at the BioEnergy and Sustainable Technology Laboratory.

Students and faculty can compost their own food waste and in exchange receive the finished compost for their own gardens.

### **Composting Benefits**

- Enriches soils with nutrients and organic matter
- Retains soil moisture and helps prevent nutrient leaching
- Decreases landfill waste and methane emissions
- Provides a sustainable alternative to commercial fertilizers







# **Student Compost Cooperative – Reducing UF's Ecological Footprint**

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