

Baseba will graduate with her B.S. in Biological Sciences with a pre-professional concentration and B.S.Ed in Secondary Education with a concentration in English in 2024. After graduation, she will apply to biology PhD programs in order to become a professor at the University of Washington in Seattle. She has been conducting research under the supervision of Dr. Erick Bandala, assistant professor at the Desert Research Institute. Food production in resource-deficient environments like space requires sophisticated waste management to minimize nutrient deficits. To remedy this issue, her research will explore how biochar production can help minimize the amount of nutrients lost from soil. Biochar has been proven to increase nutrient levels and improve soil characteristics like hydraulic conductivity and nutrient availability.