AGROECOLOGY, BS

LEARNING OUTCOMES

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1. Apply foundational knowledge about the form and function of living and non-living components of agroecosystems to describe their role within agricultural systems and predict their responses to management
2. Identify stocks and flows of energy and matter within and between organizational levels of agroecosystems from the cellular to the global level and consider their impact on ecological resilience, social justice, equity, and health.
3. Analyze approaches to improving plant and animal traits including breeding and management and how they affect pests and diseases, soils, water, nutrients, and the atmosphere
4. Compare and contrast agroecosystems in a variety of social, economic, political, geographic, and historical contexts
5. Devise agroecological solutions using effective written and oral communication for multiple audiences