

Agricultural sciences, a multidisciplinary field encompassing biology, chemistry, genetics, ecology, and economics, aims to improve agricultural systems. Its importance lies in tackling global food security, sustainability, and environmental concerns. Key branches include Crop Science (plant cultivation and breeding for higher yields and pest resistance), Animal Science (livestock management for improved productivity), Soil Science (soil properties and management for optimal plant growth), Entomology (insect–crop interactions and pest control), Plant Pathology (plant disease study and prevention), and Agroecology (sustainable farming practices). Agricultural Engineering applies engineering principles to enhance farming efficiency. These disciplines collectively contribute to improving agricultural practices and addressing global food challenges.