

UNIVERSITY OF NAIROBI
SCHOOL OF BIOLOGICAL SCIENCES

SBT 302: PLANT PHYSIOLOGY

Course objective overall : To provide a basic understanding of how plants function.

- Process : Relating autotrophs and heterotrophs
- Photosynthesis : Conversion of light to chemical energy
- Historical background of process of oxygen evolution of photosynthesis
- Stages of photosynthesis : Light reactions conversion of solar energy to chemical energy of ATP and NADPH
- The calvin cycle : Use of ATP and NADPH in conversion of CO₂ to sugar.
 - Carbohylation phase
 - Reduction phase
 - Regeneration phase

- Alternative carbon fixation mechanism for hot and arid climates

Text : Taizl h. And Zeiger : 2010 Plant Physiology Ged. Sinoover Associates, Inc.
Publishers, MA ISBN: 0-87893-856-7 (Hard cover)