

101-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	植物生理學(一)	Serial No. / ID	0528 / MBI3013
Dept.	分子生物科技學系	School System / Class	大學日間部3年1班
Lecturer	余聰安	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(四)678 / J214	Language	Chinese

Introduction
<p>Plant physiology is basic research of plant science. Basic training in life science, technique training in molecular biotechnology development and application, and practice training in bio-industry are our course goals. This course gives instruction in basic background (including the principles of bioenergetics and discusses energy metabolism and the assimilation of carbon and nitrogen, and cell and plant water relation and the uptake of mineral nutrients) in plant physiology. We hope the student get the ability for understanding, analyzing and criticizing capability in plant biotechnology.</p>

Outline
<p>Introduction</p> <p>Plant cell</p> <p>Transport and translocation of water and solutes</p> <p>Water and plant cells</p> <p>Water balance of plants</p> <p>Mineral nutrition</p> <p>Solute transport</p> <p>Photosynthesis and Metabolism</p> <p>Photosynthesis: the light reactions</p> <p>Photosynthesis: carbon reaction</p> <p>Photosynthesis: physiological and ecological considerations</p> <p>Photosynthesis: physiological and ecological considerations</p> <p>Translocation in the phloem</p> <p>Assimilation of mineral Nutrients</p>

Prerequisite
Botony or life