

97-2 Preliminary Syllabus, Da-Yeh Univ

| Information | | | |
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| Title | 植物生理學(一) | Serial No. / ID | 1686 / 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 | (三)2 / J315 (四)78 / J315 | Language | Chinese |

| Introduction |
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| <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 |
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| <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 |
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| Botony or life |