

## **Syllabus**

**Instructor** : 廖肇寧(liaocn@mx.nthu.edu.tw)  
Phone # and Room: (03)5715131 ext. 62138 台積館 811  
Course : Environmental Economics  
Time : WED. 9:10-12:00  
Office Hours : MON. 13:30-15:10 or by appointment  
Classroom :  
Grade : Mid-term exam 50% and Final exam 50%

### **Textbooks :**

Thomas, J.M. and S.J. Callan, 2013. Environmental Economics: Applications, Policy and Theory. 6th edition, South-Western CENGAGE Learning.

### **Course Objective:**

This course will familiarize students with the theory and application of economics to environmental and natural resource problems and prepare them for analyzing issues in related policies.

### **Course Contents :**

I. Introduction

II. The Theory of Environmental Externality

- (1) Public Goods ◦
- (2) Market Failure ◦
- (3) Property right and the Coase Theorem

III. Environmental Policy Analysis

- (1) Command and Control Strategies
- (2) Incentive-Based Strategies: Tax 、 Subsidy and Tradable Pollution Permit.

IV. Valuing the Environment

- (1) Cost-Benefit Analysis
- (2) Techniques of Valuation: Hedonic Price Method, Travel Cost Method

Contingent Valuation Method ◦