

國立臺北大學自然資源與環境管理研究所
105 學年度第一學期 『環境工程科學概論』

課程講義(17)：環境永續性與環境公共衛生概論
Environmental Sustainability and Environmental Public Health

Recommended Readings	國家溫室氣體排放清冊 The Taiwan Crisis - A Showcase of the Global Arsenic Problem 自來水鉛管：隱孢子蟲症簡介 ； 梨形鞭毛蟲症 Mines, R.O., Jr. 2014. <i>Environmental Engineering: Principles and Practice</i>
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● ENVIRONMENTAL SUSTAINABILITY

- Unsustainable Earth
 - ⇒ Carrying Capacity: Sustainable Yield
- Resource Depletion and Environmental Degradation
 - ⇒ Damage Cost, Maintenance Cost, Remediation Cost
 - ⇒ Green GDP
- Climate Change
 - ⇒ UNFCCC Focus: Adaptation, Mitigation, Climate Finance and Technology
 - ⇒ Emission Inventory
- Measures of sustainability
 - ⇒ Human Development Index
 - ⇒ Indicators vs. Index
- Corporate Sustainability
- United Nations Sustainable Development Goals

● ENVIRONMENTAL PUBLIC HEALTH

- Toxicology
 - ⇒ Two Phases in Risk Assessment
- Epidemiology
 - ⇒ Incidence, prevalence, and epidemics
 - ⇒ Mortality and morbidity
- Agents of infectious disease
 - ⇒ Prions Viruses Bacteria Protozoa Fungi
 - ⇒ Exotoxins vs. endotoxins
- Public Health and Engineering Measures for Control of Disease
 - ⇒ Controls directed against disease reservoirs
 - ⇒ Immunization Quarantine Surveillance Controls directed against pathogen transmission
- Emergent and Re-Emergent Infectious Diseases
 - ⇒ Climate and weather Changing ecosystems
 - ⇒ Technology and industry International travel and commerce