

Department of Civil and Environmental Engineering  
Yoshimura Chihiro

*Aquatic Environmental Science*

11. Microbiology & Carbon Dynamics

1. Microbiology
    - Overview
    - Methods to detect microbes
    - Growth rate and growth curve
    - Role and distribution of microbes in nature
    - Major microbes in aquatic environments
    - Metabolism and major biological reactions
    - Microbial loop
  2. Carbon Dynamics
    - Primary production
    - Food chain in lakes and rivers
    - Aquatic organisms and organic matter
    - Decomposition Rate of POM
    - Stratified Eutrophic Lake
    - Anaerobic Digestion
    - Stable Isotopes in Environmental Studies
  3. Exercise
-