



Department of Civil and Environmental Engineering  
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## Aquatic Environmental Science

### 2. Watershed Hydrology and Aquatic Ecosystem

1. General Introduction of Hydrology
    - Historical and social background of hydrology
    - Definition of hydrology and watershed
    - Latest trend in hydrological research
    - Hydrological cycle at global and watershed scales
    - Water balance
    - Stream flow variability and human impacts
    - Hydrological model
  2. Relation of Hydrology to Aquatic Ecosystem
    - Relation to life cycle of fish
    - Relation to ecosystem service
    - Ecological perspective in assessing watershed hydrology
  3. Relevant Anthropogenic Impacts and Its Modelling
  4. Exercise
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