

HYDROCHEMISTRY

Responsible professor: MARÍA DOLORES GALINDO RIAÑO

Credits: 2,5 ECTS

Brief description of the contents:

- Physical and chemical properties of water: the water molecule
- Natural composition of waters, in terms of major ions. Minorities, traces and gases. Study techniques and representation in hydrology.
- Chemical reactivity of water components: acid-base balance, redox equilibria and complexation equilibria
- Ability of metals to react in water
- The interaction of water and its components with other phases present in aquatic ecosystems
- Chemical balances associated with biomass and the C, N, O, S cycles.
- In-situ monitoring systems versus direct sampling
- Analysis techniques for the characterisation of waters

Evaluation system:

| SYSTEM | WEIGHT |
|--|---------|
| Final exam | 40 – 60 |
| Written essays | 40 – 60 |
| Presentation of exercises, topics and projects | 0 – 30 |
| Laboratory practices and/or practice report | 0 – 30 |