

### Integrated exercises in soil and water chemistry **BIR1313**

[30h] 2.5 credits

This course is taught in the 2nd semester

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## Aims

Chimie générale; Sciences du sol

Practice of the working in a laboratory (security, respect, efficiency, quality, laboratory notebook, reports.) Intelligent approach of the chemical analysis: laboratory work, comparison of methods, quality of the results. Application of the chemical analysis to the field of agriculture engineering and the environmental sciences: soil and water.

# Main themes

Practice of the current analytical methods, centered on the following themes:

- Soil analysis: acidity, exchange complex, nature, carbonates, nutrition elements and organic matter (chemical specification, bio-availability)

- Analysis of an aqueous solution: ionic balance and bio-mass (of the organic matter)

## Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Precursory courses :General chemistry, Soil sciences Evaluation : Report (written paper) and oral questioning about the latter.

# Programmes in which this activity is taught

BIR2 **Bio-ingénieur** 

## Other credits in programs

| BIR21/A | Première année du programme conduisant au grade de | (2.5 credits) | Mandatory |
|---------|--|---------------|-----------|
|         | bio-ingénieur (Agronomie)                          |               |           |
| BIR21/E | Première année du programme conduisant au grade de | (2.5 credits) | Mandatory |
|         | bio-ingénieur (Environnement)                      |               |           |