

- Faculté des sciences
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### Natural substance analyses (3BL2196)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en biologie</b>	<b>Cours: 7 dj</b>	Voir ci-dessous	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

#### Période d'enseignement:

- Semestre Automne

#### Equipe enseignante

Prof. Stephan von Reuss, Prof. Gregory Roeder, and their assistants

#### Contenu

Introduction to natural products chemistry - Standard isolation techniques for natural products - Selected analytical methods including: chromatography (GC, TLC, HPLC), UV-Vis spectrophotometry, Infrared spectroscopy (IR), Mass spectrometry (MS), and Nuclear Magnetic Resonance spectroscopy (NMR).

#### Forme de l'évaluation

Continuous assessment graded.

At the end of both sections a short written evaluation will be organized. The final grade will be the average from both these tests.

#### Modalités de rattrapage

In case of insufficient grade, a reexamination must be registered in IS-Academia after formal notification of the initial grade and coordinated with the professor in charge (not in Pidex).

#### Documentation

<https://moodle.unine.ch/>  
Registration compulsory

#### Pré-requis

University introductory courses on general chemistry, organic chemistry, and analytical chemistry.

#### Forme de l'enseignement

Lectures and selected reading,  
Laboratory sessions.

#### Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Practice some analytical chemistry with real natural products and methods, including data processing
- Distinguish main methods and techniques used in natural products chemistry (extraction, isolation, identification, quantification, etc.)

#### Compétences transférables

- Integrate analytical chemistry of natural products (with strengths and limits) to a scientific research plan

URLs	1) <a href="https://moodle.unine.ch/">https://moodle.unine.ch/</a>
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