

## COURSE DETAIL

### ANALYTICAL METHODS IN ORGANIC CHEMISTRY

**Country**

Netherlands

**Host Institution**

Wageningen University and Research Center

**Program(s)**

Wageningen University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Chemistry

**UCEAP Course Number**

100

**UCEAP Course Suffix****UCEAP Official Title**

ANALYTICAL METHODS IN ORGANIC CHEMISTRY

**UCEAP Transcript Title**

ANALYTC ORGNC CHEM

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course introduces the student to both theory and practical application of chromatographic analyses and separation techniques. It also covers the basic isolation techniques for components of various chemical classes. Attention is given to the qualitative and quantitative analysis of, e.g., preservatives, drugs, sugars, and pollutants using a variety of techniques (e.g., TLC, HPLC, GC, capillary electrophoresis (CE) and ELISA). Students are introduced to the theory and practical applications of spectroscopic methods aiming towards the structural analysis of organic compounds, including proteins. The combination of UV/VIS, IR & NMR spectroscopy and mass spectrometry (MS) is discussed and used. During the practical work these methods are applied towards the elucidation of the structure of unknown compounds. Special emphasis is also given to the application of GC-MS and LC-MS including theory, scope, and limitations, and practical usage in the analysis of food contaminants.

## Language(s) of Instruction

## Host Institution Course Number

ORC-11806

## Host Institution Course Title

ANALYTICAL METHODS IN ORGANIC CHEMISTRY

## Host Institution Course Details

## Host Institution Campus

Biotechnology

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Organic Chemistry

## Course Last Reviewed

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