# Course: Statistics for Analytical Chemistry — credits: 5

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| **Course code** | CHVP23STATISTIEK |
| **Name** | Statistics for Analytical Chemistry |
| **Study year** | 2025-2026 |
| **ECTS credits** | 5 |
| **Language** | Dutch, with parts in English |
| **Coordinator** | J. Geertsema |
| **Modes of delivery** | Lecture<br>Practical / Training<br>Project-based learning |
| **Assessments** | Practicum - Other assessment<br>Statistiek voor Analytische Chemie Theorie - Written, organised by STAD examinations |

**Learning outcomes**

This module has the following learning outcomes:

- You apply statistical tests and/or terms to given experiments.
- You apply different statistical tests during a written test and/or practical problem, for example a ring test.
- You solve a chromatographic (HPLC, GC) problem with the help of theoretical knowledge and practical skills.
- You recognize a quality system and apply the acquired theoretical knowledge about it to a practical problem (HPLC, GC).
- You apply the acquired theoretical knowledge about chromatography and statistics in an independent, safe and responsible way while performing a simple experiment, and communicate about this with a logbook and/or measurement report according to the given guidelines.
- You write a report on one of the practical experiments according to the given guidelines. (= PS)

DAS competencies

| Competency | Level (I-IV) |
|---|---|
| Research | I |
| Experimentation | I |
| Development | |
| Management | |
| Advise | |
| Instruction | |
| Leadership | |
| Self-management | I |

**Content**

This module focuses on statistics and analytical chemistry. Students apply learned statistics during a practical through HPLC, GC and a ring test. For language learning, a report is written and assessed. Theory is taught through instructional lectures.

It is highly desirable that the Chromatography and Spectrometry module has been taken.

**Included in programme(s)**

Chemistry

**School(s)**

Institute for Life Science & Technology

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