Modul Analytical Chemistry:

In this module, the following content is taught:

- Basics and theoretical foundations on instrumental analytical chemistry including separation and detection techniques, such as chromatography and spectrometry
- Specific techniques and theoretical foundations in one of the following special areas of analytical chemistry (to be selected):
  - Ultra trace analysis
  - Scanning probe microscopy
  - Emerging areas in analytical chemistry
- Application of analytical working techniques, including sample preparation, calibration, measurement, data acquisition and processing, as well as evaluation of statistical uncertainties
- Summary of research results in a report or oral presentation

Further information:

- The module consists of two lectures, a seminar and a practical course.
- Lectures take place throughout the term, practical course can be arranged individually
- Term: WiSe & SoSe (recommended start in summer term, but not mandatory)
- Lecturers: Apl. Prof. Dr. Christine Kranz; Prof. Dr. Kerstin Leopold, Prof. Dr. Boris Mizaikoff
- Electable for Master Biochemistry
- ECTS: 15

Courses:

- *Pflichtvorlesung*: Instrumentelle Analytische Chemie mit Seminar (SoSe, 4 LP)
- *Wahlvorlesung*: eine aus dem AnalChem-Vorlesungspool: z.B. Ultra Trace Analysis (SoSe, 3LPs), Emerging Areas (WiSe, 3LPs), Scanning Probe Microscopy (SoSe, 3LPs)
- *4-wöchiges Forschungspraktikum* in einem der Arbeitskreise des IABC (8 LP)